

					Lys-90 to Ser-99, Ser-102 to His-109, Gln-112 to Trp-121.			1, H0581: 1, L0763: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0776: 1, L0749: 1, L0779: 1, L0752: 1, L0758: 1 and L0599: 1.	
HWAGO42	958373	6931	1 - 489	16683	Pro-24 to Val-31.			H0581: 1 and L0800: 1.	
HWAFQ10	961339	6932	733 - 930	16684				L0766: 2 and H0581: 1.	
HWAFM60	868436	6933	1 - 315	16685	Asp-7 to Asn-17, Arg-40 to His-47, Pro-80 to Cys-91.			H0581: 1 and L0766: 1.	
HWAFG12	969605	6934	70 - 417	16686	Ala-1 to Gly-10, Arg-33 to Thr-39, Phe-41 to Gly-50, Asp-59 to Gly-66, Arg-73 to Ser-80.			H0581: 1 and L0655: 1.	
HWAFB87	949950	6935	121 - 420	16687	Gly-7 to Asp-12, Glu-31 to Ser-43, Val-76 to Ser-86.			AR089: 1, AR061: 1 H0581: 1	
HWAFD56	868452	6936	98 - 217	16688	Asp-8 to Cys-15.			H0581: 1 and L0758: 1.	
HWAFD10	963323	6937	3 - 131	16689				H0581: 1 and L0662: 1.	
HWAF447	948858	6938	110 - 358	16690	Ser-16 to Ile-22.			AR089: 4, AR061: 1 H0581: 1	
HWAF405	930990	6939	290 - 544	16691	Gln-1 to Arg-11, Pro-33 to Arg-41, Thr-46 to Gly-52, Arg-54 to Cys-75.			L0751: 2, H0581: 1, L0794: 1 and L0752: 1.	
HWAEZ81	868460	6940	496 - 257	16692	Gln-1 to Lys-8.			H0581: 1	
HWAEZ19	874351	6941	121 - 519	16693	Ser-1 to Ile-7, Phe-27 to Lys-44.			H0581: 1	
HWAEU35	887166	6942	1 - 474	16694	Arg-22 to Arg-36.			AR051: 268, AR054: 153, AR050: 68, AR089: 54, AR061: 9 H0581: 1	
HWAE10	838763	6943	102 - 275	16695	Glu-52 to Lys-58.			H0581: 1 and L0766: 1.	
HWAE25	951965	6944	2 - 793	16696	Asn-11 to His-19, Gly-31 to Val-37.			H0581: 1 and L0593: 1.	

HWAEK27	868494	6945	357 - 578		Thr-65 to Ser-74, Lys-177 to Thr-182, Gly-187 to Asp-199.		
HWAEQ71	931547	6946	2 - 553	16697	Asn-1 to Lys-6, Gly-18 to Glu-28, Ser-53 to Thr-58.	H0581: 1 and L0589: 1.	
HWAEQ08	958115	6947	3 - 716	16698	Gln-60 to Ala-68, Tyr-132 to Ser-138, Lys-156 to Val-163.	AR089: 6, AR061: 1 L0740: 2 and H0581: 1.	
HWADQ35	868526	6948	824 - 630	16699	Leu-32 to Pro-38, Leu-124 to Ala-135.	AR061: 0, AR089: 0 H0581: 1, L0803: 1, L0664: 1, L0439: 1 and L0751: 1.	
HWAD027	682458	6949	222 - 380	16700		L0759: 4, H0581: 1, L0055: 1, L0773: 1 and L0777: 1.	
HWADN42	713272	6950	188 - 391	16701	Lys-45 to Ser-53.	H0581: 1, L0748: 1 and L0754: 1.	
HWADM84	782685	6951	209 - 373	16702	Ser-10 to Glu-18.	H0581: 1, L0661: 1 and L0750: 1.	
HWADI46	891149	6952	2 - 265	16703	Gly-31 to Lys-43.	H0581: 1 and L0439: 1.	
HWAD25	677594	6953	314 - 427	16704		AR050: 65, AR054: 52, AR051: 41 H0581: 1	
HWADD18	665173	6954	83 - 349	16705		L0748: 2 and H0581: 1.	
				16706		L0794: 2, L0665: 2, H0581: 1, L0438: 1, L0439: 1, L0749: 1, L0757: 1 and L0758: 1.	
HWACZ56	733002	6955	3 - 326	16707		H0581: 1 and L0596: 1.	
HWACY70	756888	6956	190 - 552	16708	Glu-1 to Lys-31, Ser-36 to Arg-61.	AR089: 6, AR061: 2 H0581: 1 and L0608: 1.	
HWACS69	774914	6957	391 - 552	16709		H0581: 1 and L0731: 1.	
HWACQ54	729166	6958	80 - 208	16710		H0581: 1 and L0745: 1.	
HWACJ56	733013	6959	205 - 414	16711	Pro-16 to Ile-23.	H0581: 1 and L0748: 1.	
HWACI46	718711	6960	383 - 538	16712		H0581: 1, L0748: 1 and L0581: 1.	
HWACH03	923374	6961	177 - 350	16713	Gly-41 to Ser-46.	H0581: 1, L0748: 1 and	

HWACD30	691565	6962	34 - 249	16714	Pro-5 to Arg-19.	L0749: 1.		
HWABY68	927387	6963	2 - 382	16715		L0747: 3 and H0581: 1. L0777: 2 and H0581: 1.	19q13.3	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225
HWABY67	751409	6964	145 - 294	16716				
HWABY34	868535	6965	107 - 280	16717				
HWABP20	669486	6966	160 - 384	16718	Lys-21 to Arg-27, Ala-29 to Ala-35.	H0581: 1 and L0747: 1. L0748: 2 and H0581: 1.		
HWABP19	951277	6967	33 - 254	16719		H0581: 1 and L0764: 1.		
HWABP02	919442	6968	322 - 423	16720		L0766: 2, H0581: 1 and L0746: 1.		
HWABH13	656767	6969	360 - 602	16721		L0766: 2 and H0581: 1.		
HWABH68	929275	6970	3 - 212	16722		H0581: 1 and L0646: 1.		
HWABG11	949088	6971	1 - 486	16723	Phe-13 to Ile-19.	AR089: 8, AR061: 2 H0581: 1		
HWABD52	726510	6972	4 - 207	16724		L0777: 2 and H0581: 1.		
HWAAAY79	791452	6973	45 - 329	16725	Thr-32 to His-38, Thr-46 to Asn-55.	H0581: 1 and L0598: 1.		
HWAAAY51	973237	6974	48 - 185	16726		H0581: 1		
HWAAAX48	721442	6975	144 - 377	16727	Arg-18 to Asn-26, Pro-10 to Ser-22, Gly-57 to Cys-62.	H0581: 1, L0805: 1, L0776: 1, L0791: 1, L0663: 1 and L0439: 1.		
HWAAW65	779578	6976	594 - 809	16728	Gly-1 to Arg-14, Leu-32 to Gly-37, Pro-41 to Gly-46.	H0581: 1 and L0748: 1.		
HWAAQ76	887772	6977	3 - 590	16729	His-3 to Ile-9, Leu-13 to Leu-20, Ala-47 to Ser-54, Asn-86 to Pro-93.	AR050: 94, AR051: 77, AR054: 68 L0758: 2, H0581: 1 and L0779: 1.		
HWAAAM30	691878	6978	106 - 336	16730	Asn-36 to Glu-42, Pro-53 to Asp-58.	H0581: 1 and L0731: 1.		
HWAAAL70	757035	6979	3 - 443	16731		H0581: 1 and L0741: 1.		

HWAAI41	712141	6980	117 - 383	16732	Arg-18 to Phe-32.	H0581: 1 and L0748: 1.	
HWAAI60	751037	6981	2 - 226	16733		H0581: 1 and L0759: 1.	
HWAAE31	841973	6982	105 - 248	16734	Arg-1 to Phe-9, Arg-23 to Gly-31.	H0581: 1, L0766: 1 and L0599: 1.	
HWAAAB06	935131	6983	181 - 429	16735	Ser-4 to Ala-12, His-21 to Leu-27, Pro-30 to Glu-35.	L0452: 1 and H0581: 1.	
HUUDR34	944903	6984	2 - 658	16736	Lys-6 to Met-14, Lys-60 to Leu-65, Asp-71 to Lys-76, Arg-78 to Ser-88, Pro-96 to His-101, Glu-109 to Glu-123, Thr-138 to Ala-144, Arg-173 to Asp-180.	L0462: 2, H0656: 1 and L0617: 1.	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
HUUCS12	969325	6985	403 - 687	16737	Ser-6 to Pro-13.	L0748: 3 and H0656: 1.	
HUUCJ02	940813	6986	594 - 121	16738	Gly-11 to Ile-17, Gln-57 to Gly-64.	H0656: 1 and L0163: 1.	
HUJDJ03	972441	6987	189 - 578	16739	Arg-54 to Ser-61, Pro-79 to Ser-90.	L0523: 2 and H0650: 1.	
HUIDE05	967231	6988	21 - 569	16740	Lys-2 to Ile-11, Asp-76 to Gly-83.	H0650: 1 and L0758: 1.	5q31.1 131400, 147061, 147575, 147575, 147575, 153455, 159000, 181460, 600807, 601596, 602089
HUIGN12	969331	6989	316 - 465	16741		H0650: 1 and L0142: 1.	
HUIBQ04	926196	6990	1 - 120	16742		H0650: 1	
HUIBP01	914512	6991	1 - 330	16743		H0650: 1	
HTYSK04	501001	6992	19 - 285	16744	Arg-28 to Gly-36, Pro-73 to Tyr-80.	H0116: 1	
HTYSK65	500999	6993	126 - 338	16745	His-45 to Tyr-50.	H0116: 1	
HTYSK23	575458	6994	112 - 258	16746		H0116: 1	
HTYND11	965061	6995	93 - 311	16747		L0748: 1 and S0432: 1.	
HTYNC04	976906	6996	167 - 66	16748	Leu-16 to Asn-31.	L0021: 1, L0779: 1 and S0452: 1.	

HTXAA83	537277	6997	424 - 185	16749	Ala-4 to Gly-13.	H0058: 1	
HTXSV06	933377	6998	267 - 461	16750	Glu-20 to Glu-26.	H0556: 1 and L0367: 1.	
HTXSH08	957886	6999	266 - 463	16751		L0749: 4, L0748: 2, L0777: 2, H0556: 1 and L0471: 1.	
HTXSC11	965536	7000	168 - 416	16752	Lys-28 to Met-34, Glu-40 to Ile-45.	H0556: 1	
HTXSA04	926338	7001	174 - 413	16753		H0556: 1, L0783: 1 and L0809: 1.	
HTXBS08	957919	7002	1 - 183	16754	Pro-8 to Arg-19.	H0556: 1 and L0366: 1.	
HTXSA02	918089	7003	2 - 205	16755	Pro-7 to Gly-17.	H0556: 1, L0748: 1 and L0780: 1.	
HTXQS11	965084	7004	1 - 447	16756	Val-20 to Ser-37, Asp-110 to Arg-125.	H0556: 1, L0643: 1 and L0749: 1.	
HTXQO07	952064	7005	1 - 231	16757		H0556: 1 and L0749: 1.	
HTXQM71	869147	7006	192 - 425	16758	Leu-50 to Ile-55.	H0556: 1 and L0766: 1.	
HTXQM07	952067	7007	311 - 445	16759		H0556: 1 and L0805: 1.	
HTXPX72	916162	7008	132 - 458	16760		H0556: 1 and L0748: 1.	
HTXPV03	922905	7009	416 - 664	16761		H0556: 1 and L0745: 1.	
HTXOR95	869249	7010	380 - 592	16762		H0556: 1 and L0748: 1.	
HTXOO15	869261	7011	55 - 273	16763	Pro-49 to Thr-55.	AR089: 1, AR061: 0	
HTXOO12	872368	7012	30 - 395	16764		H0556: 1 and L0752: 1.	
HTXOK51	869265	7013	147 - 527	16765	Ser-76 to Gly-82, Gly-89 to Thr-97.	H0556: 1 and L0761: 1.	12
HTXNJ60	869299	7014	354 - 677	16766	Pro-42 to Arg-47.	H0556: 1 and L0766: 1.	
HTXNG04	926992	7015	48 - 557	16767	Pro-20 to Ala-25, Lys-53 to Arg-63, Pro-80 to Gly-89, Ser-139 to Asp-156.	L0749: 5, L0748: 3 and H0556: 1.	
HTXNFI1	869300	7016	309 - 593	16768		H0556: 1 and L0748: 1.	
HTXNA19	953848	7017	562 - 792	16769		H0556: 1 and L0439: 1.	
HTXMM01	915250	7018	107 - 223	16770		H0556: 1 and L0562: 1.	
HTXMM37	948611	7019	1 - 204	16771		L0748: 2 and H0556: 1.	
HTXMR30	869312	7020	332 - 577	16772		L0758: 2 and H0556: 1.	
HTXMM82	841875	7021	2 - 424	16773	Arg-15 to Ser-22.	H0556: 1 and L0596: 1.	

HTXMC72	875290	7022			Ala-30 to Leu-37, Pro-44 to Lys-51, Leu-53 to Arg-65, Pro-123 to Trp-132.			
HTXLS08	958357	7023	127 - 399 1 - 1152	16774 16775	Asp-1 to Gly-8, Leu-14 to Ser-20.		H0556: 1 and L0748: 1. L0766: 9, L0761: 8, L0779: 3, L0809: 2, L0752: 2, H0556: 1, L0772: 1, L0794: 1 and L0745: 1.	
HTXLN70	756630	7024	409 - 663	16776			H0556: 1 and L0748: 1.	
HTXLI10	963602	7025	235 - 471	16777			H0556: 1 and L0794: 1.	
HTXKP30	487401 494070	7026 9612	138 - 335 164 - 3	16778 19364	Asp-13 to Phe-19, Arg-46 to Leu-54.		H0556: 1	
HTXKN65	869345	7027	71 - 241	16779	Met-1 to Asn-8, Gln-19 to Ser-24.		H0556: 1 and L0369: 1.	
HTXKM37	869347	7028	24 - 236	16780	Lys-8 to Pro-19.		H0556: 1 and L0768: 1.	
HTXKM24	677101	7029	117 - 284	16781	Lys-6 to Thr-11.		H0556: 1 and L0748: 1.	
HTXKK96	796330	7030	321 - 515	16782	Gly-51 to Pro-65.		H0556: 1 and L0596: 1.	
HTXKK31	697838	7031	208 - 447	16783	Ser-74 to Ile-80.		H0556: 1 and L0756: 1.	
HTXKF02	919683	7032	3 - 251	16784	Leu-2 to Ser-14, Ser-26 to Ala-34, Pro-43 to Gly-49.		H0556: 1, L0743: 1 and L0744: 1.	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
HTXKC64	746471	7033	203 - 481	16785	Ile-9 to Asn-18.		H0556: 1 and L0748: 1.	
HTXJX77	870446	7034	94 - 606	16786	Gln-25 to Thr-30.		H0556: 1 and L0596: 1.	

HTXJR61	741746	7035	941 - 693	16787	Ser-45 to Lys-54, Lys-1 to Leu-6.	L0439: 3, H0556: 1 and L0747: 1.	
HTXJP17	663123	7036	77 - 334	16788	Arg-24 to Gly-32, Asp-48 to Ser-55, Pro-58 to Gln-64, Glu-69 to His-86.	L0747: 3, L0758: 2, H0556: 1 and L0515: 1.	
HTXJO80	871594	7037	329 - 454	16789		L0748: 2, H0556: 1, L0637: 1 and L0749: 1.	
HTXJO78	773508	7038	145 - 282	16790	Leu-7 to Gly-18, Trp-20 to Asn-29.	H0556: 1 and L0755: 1.	
HTXJN39	566290	7039	25 - 240	16791	Ala-4 to Gln-9, Asp-31 to Ser-36, Asp-44 to Gln-53.	AR054: 19, AR050: 2, AR051: 1 H0556: 1 and L0592: 1.	
HTXJK20	423763	7040	122 - 349	16792	Lys-1 to Arg-14, Thr-38 to Cys-50.	H0556: 1 and L0591: 1.	
HTXJC08	957757	7041	737 - 450	16793		AR054: 16, AR050: 10, AR051: 2 H0556: 1	
	972481	9613	410 - 727	19365	Gly-23 to Arg-29, Gly-33 to Ser-42, His-51 to Thr-56, Pro-67 to Ser-79, Ser-84 to Arg-91, Pro-100 to Gly-106.		
HTXJA76	767696	7042	222 - 386	16794	Ser-6 to Thr-12.	H0556: 1	
HTXJA32	699152	7043	54 - 344	16795	Ser-2 to Met-7, Pro-18 to Pro-25.	L0599: 2 and H0556: 1.	
HTXGH41	712566	7044	4 - 246	16796	Pro-3 to Gln-8, Val-35 to Asp-40.	H0265: 1 and L0749: 1.	
HTXGE85	783418	7045	1 - 462	16797		L0743: 3, L0744: 2 and H0265: 1.	
HTXFR89	790276	7046	2 - 292	16798	Arg-4 to Cys-16, Pro-18 to Pro-38, Asn-86 to Lys-92.	H0265: 1 and L0750: 1.	
HTXFN90	537392	7047	87 - 374	16799	Gly-26 to Leu-31,	H0265: 1	

HTXFN73	824543	7048	82 - 285	16800	Gln-35 to Gly-41.	H0265: 1
HTXFN63	745316	7049	96 - 308	16801		H0265: 1
HTXFN53	537391	7050	42 - 305	16802		H0265: 1
HTXFN23	537393	7051	37 - 207	16803		H0265: 1
HTXPH43	537397	7052	28 - 240	16804	Pro-7 to Asn-13, Pro-19 to Tyr-26, Arg-48 to Phe-55.	H0265: 1
HTXPH20	537398	7053	17 - 217	16805	Lys-11 to Cys-21, Thr-41 to Pro-47, Arg-55 to Thr-60.	H0265: 1
HTXFG29	689833	7054	79 - 210	16806		H0265: 1
HTXFF96	796109	7055	543 - 379	16807	Tyr-8 to Ala-13, Gly-22 to Ser-28, Met-38 to Pro-45.	H0265: 1
	796314	9614	133 - 321	19366	Lys-7 to Gly-14, His-16 to Asp-22.	
HTXFF93	934438	7056	370 - 558	16808	Arg-6 to Ser-11, Val-36 to Ser-43.	H0265: 1 and L0748: 1.
HTXEY18	869406	7057	132 - 392	16809	Pro-28 to Gly-34.	H0265: 1
HTXEX83	780277	7058	1 - 342	16810		H0265: 1 and L0748: 1.
HTXEE90	789161	7059	120 - 368	16811	Ser-8 to Tyr-19, Glu-75 to Pro-83.	L0740: 2 and H0265: 1.
HTXEC96	796561	7060	260 - 132	16812		H0265: 1 and L0748: 1.
HTXEA45	723401	7061	2 - 301	16813	Pro-2 to Ser-11, Arg-36 to Ser-51.	H0265: 1 and L0596: 1.
HTXDZ56	733641	7062	135 - 424	16814	Tyr-39 to Tyr-45.	L0748: 2 and H0265: 1.
HTXDW32	699559	7063	810 - 1070	16815	Ser-58 to Ile-66.	H0265: 1 and L0749: 1.
HTXDI77	772473	7064	2 - 202	16816	Thr-13 to Thr-19.	H0265: 1 and L0750: 1.
HTXDD24	888612	7065	1 - 276	16817		AR034: 15, AR050: 4, AR051: 3 H0265: 1
HTXCW50	724650	7066	3 - 422	16818	Glu-1 to Asp-9, Lys-29 to Lys-46.	L0809: 4, L0803: 2, L0777: 2, H0265: 1, L0774: 1, L0651: 1, L0749: 1 and L0780: 1.

HTXCS84	783262	7067	5 - 82	16819	Glu-18 to Ala-24.	H0265: 1	
HTXBT88	529663	7068	17 - 286	16820	Val-1 to Ser-12, Gly-14 to Thr-22, Arg-63 to Ala-71.	H0265: 1	
HTXAW03	921906	7069	92 - 376	16821		H0265: 1, L0769: 1, L0509: 1, L0439: 1, L0747: 1 and L0755: 1.	
HTXAK96	796612	7070	360 - 485	16822	Lys-1 to Trp-8.	H0265: 1 and L0748: 1.	
HTXAJ34	707050	7071	196 - 318	16823	Tyr-13 to Phe-18.	H0265: 1 and L0754: 1.	
HTWL177	839177	7072	1 - 411	16824	Pro-30 to Pro-38.	H0576: 1	
HTWLF58	869478	7073	131 - 433	16825	Pro-51 to Gly-38.	L0766: 1, H0576: 1 and L0779: 1.	
HTWLD61	741610	7074	3 - 218	16826	Ala-6 to Met-16, Pro-39 to Lys-45.	H0576: 1	
HTWLD10	964195	7075	85 - 189	16827		L0803: 1 and H0576: 1.	
HTWLC51	725533	7076	94 - 201	16828		L0748: 2, L0766: 1, H0576: 1 and L0779: 1.	
HTWKZ86	785318	7077	121 - 279	16829	Lys-15 to Ser-20, Glu-28 to Trp-36, Lys-38 to Lys-49.	H0576: 1	
HTWKZ46	718872	7078	160 - 354	16830	Ala-50 to Asn-63.	H0576: 1	
HTWKZ35	494833	7079	2 - 127	16831		H0576: 1	
HTWKZ28	686254	7080	177 - 395	16832	Ser-1 to Val-10, Glu-20 to Ser-29, Pro-54 to Cys-67.	H0576: 1	
HTWKZ27	812689	7081	142 - 303	16833		H0576: 1	
HTWKZ15	659934	7082	233 - 367	16834	Leu-7 to Leu-13, Pro-15 to Cys-20.	H0576: 1	
HTWK141	712142	7083	25 - 189	16835	Trp-14 to Ser-25.	L0766: 1, H0576: 1 and L0754: 1.	
HTWKF34	703863	7084	174 - 320	16836	Asp-25 to Lys-30.	L0748: 2 and H0576: 1.	
HTWKB07	952841	7085	91 - 321	16837	Pro-27 to Ser-36.	L0763: 1 and H0576: 1.	
HTWY136	708338	7086	12 - 251	16838	Gly-73 to Leu-80.	L0761: 2, L0754: 2, L0766: 14q32.1 1, H0576: 1, L0779: 1, L0780: 1 and L0755: 1.	107280, 107280, 107400, 107400, 122500, 186960, 245200, 601841

HTWJH08	790185	7087	85 - 207	16839	Gly-3 to Cys-12, Lys-33 to Lys-41.	AR061: 1, AR089: 1 H0576: 1	
	846554	9615	85 - 207	19367	Gly-3 to Cys-12, Lys-33 to Lys-41.		
HTWJF89	805706	7088	45 - 323	16840	Glu-1 to Ser-9, Ser-30 to Ala-36, Gln-61 to Tyr-66.	H0576: 1 and L0748: 1.	
	911448	7089	916 - 1434	16841	Thr-12 to Trp-20, Pro-29 to Arg-35, Leu-51 to Arg-58, Arg-100 to Arg-108, Cys-120 to Arg-125, Pro-150 to Arg-163.		
HTWJF50					Leu-38 to Lys-43, Ser-52 to Cys-58.	L0766: 1 and H0576: 1.	
	559919	7090	2 - 226	16842			
HTWJA79	586124	7091	2 - 196	16843		H0576: 1	
HTWFM90	582285	7092	59 - 187	16844	Leu-16 to Ser-29.	AR054: 180, AR050: 146, AR051: 125, AR089: 10, AR061: 4 H0436: 1	
HTWFM89	786805	7093	110 - 301	16845	Gly-1 to Tyr-13, Arg-26 to Lys-39.	H0436: 1	
HTWFM79	841983	7094	19 - 186	16846	Ser-43 to Tyr-49.	L0766: 1 and H0436: 1.	
HTWFM71	760303	7095	18 - 242	16847	Leu-7 to Leu-14, Pro-16 to Glu-23, Thr-36 to Glu-51.	H0436: 1	
HTWFM48	721587	7096	1 - 114	16848	Val-14 to Leu-27.	H0436: 1	
HTWEJ71	869491	7097	346 - 609	16849	Gly-38 to Glu-48.	L0770: 1 and H0436: 1.	
HTWFFH75	767251	7098	352 - 498	16850		H0436: 1 and L07748: 1.	
HTWFFH73	761686	7099	239 - 460	16851		H0436: 1 and L0777: 1.	
HTWFFH42	713667	7100	395 - 523	16852		H0436: 1, L0748: 1 and L0749: 1.	
HTWFG29	800193	7101	1 - 93	16853	Phe-13 to Glu-20.	H0436: 1	
HTWFD63	745010	7102	1 - 183	16854	Lys-21 to Lys-27, Arg-32 to Ser-37.	L0748: 2 and H0436: 1.	
HTWEY89	864553	7103	2 - 229	16855	Met-50 to Glu-63.	H0436: 1 and L0740: 1.	8q13 122560, 214400.

HTWEC090	788559	7104	316 - 322	16856	Ser-70 to Pro-76.	L0745: 9 and H0436: 1.	602476
HTWEJ74	765512	7105	64 - 228	16857		H0436: 1 and L0756: 1.	
HTWEH76	876853	7106	319 - 639	16858	Val-1 to Thr-16.	H0436: 1 and L0601: 1.	
HTWEC75	767264	7107	426 - 581	16859	Lys-1 to Glu-10, Leu-15 to Leu-22, Glu-35 to Asn-41.	L0745: 4, L0750: 2 and H0436: 1.	
HTWDR91	869526	7108	130 - 447	16860		H0436: 1	
HTWDC06	935644	7109	211 - 345	16861	Leu-23 to Gly-32.	L0809: 1 and H0436: 1.	
HTWDK68	753086	7110	253 - 399	16862	Met-36 to Asn-43.	H0436: 1 and L0608: 1.	
HTWDJ42	713869	7111	105 - 269	16863	Gly-5 to His-13, Lys-22 to Glu-27.	H0436: 1 and L0748: 1.	
HTWDI49	723047	7112	138 - 281	16864	Ser-24 to Trp-32.	L0745: 2, H0436: 1 and L0780: 1.	
HTWDE70	844831	7113	188 - 358	16865		H0436: 1	
HTWCL86	859421	9616	123 - 239	19368			
HTWCJ08	959591	7114	134 - 229	16866		H0436: 1	
HTWCQ06	935642	7115	201 - 413	16867	Asn-22 to Asp-27, Leu-31 to Lys-36.	H0436: 1 and L0758: 1.	
HTWCD06	935646	7116	215 - 319	16868	Thr-1 to Pro-9.	L0766: 1 and H0436: 1.	
HTWCB69	729244	7117	387 - 542	16869		L0517: 1 and H0436: 1.	
		7118	27 - 290	16870	Gly-32 to Gly-38, Gly-41 to Glu-53, His-58 to Phe-69.	H0436: 1 and L0748: 1.	
HTWBW72	772117	7119	244 - 2	16871		H0436: 1 and L0439: 1.	
HTWBV33	594496	7120	1053 - 769	16872		H0436: 1	
	701754	9617	344 - 189	19369			
	813291	9618	299 - 517	19370	Pro-37 to His-49, Thr-56 to Lys-64.		
HTWBV03	869549	7121	483 - 650	16873		L0766: 5, H0436: 1 and L0740: 1.	139330, 139360, 150250, 164500, 182280, 227646, 261510, 600163, 600971, 601154, 601226, 601267, 601373

HTWBT62	742588	7122	26 - 208	16874	Glu-6 to Lys-13, Thr-29 to Glu-39, Arg-48 to Glu-59.	H0436: 1 and L0748: 1.	
HTWBP67	751752	7123	102 - 221	16875		H0436: 1 and L0747: 1.	
HTWBL08	959619	7124	221 - 418	16876	Asn-6 to Ser-15.	H0436: 1 and L0747: 1.	
HTWBJ04	922175	7125	132 - 362	16877	Pro-12 to Gly-20.	L0598: 1 and H0436: 1.	
HTWBF27	683546	7126	82 - 360	16878		H0436: 1 and L0752: 1.	
HTWBE63	745194	7127	181 - 309	16879	Pro-1 to Gly-12.	H0436: 1 and L0753: 1.	
HTWBD84	783120	7128	232 - 477	16880	Leu-61 to His-66.	H0436: 1 and L0748: 1.	
HTWBD61	604245	7129	285 - 569	16881		H0436: 1	
	824129	9619	418 - 167	19371	Ala-49 to Glu-56.		
HTWAM49	722141	7130	235 - 444	16882		H0187: 1 and L0748: 1.	
HTWAM48	518825	7131	33 - 308	16883	Ser-59 to Glu-71.	L0605: 2 and H0187: 1.	
HTWAM25	677506	7132	744 - 289	16884	Thr-1 to Lys-11.	L0758: 5, L0794: 4, L0803: 3, L0744: 2, L0756: 2, L0435: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0809: 1, L0789: 1, H0187: 1, L0439: 1, L0751: 1, L0779: 1 and L0591: 1.	
HTWAJ11	967845	7133	261 - 443	16885	His-21 to Pro-27.	L0759: 2, L0657: 1 and H0187: 1.	
HTWAE31	725127	7134	3 - 191	16886		H0187: 1 and L0439: 1.	
HTWAB85	522346	7135	89 - 307	16887		H0187: 1	
HTWAB65	533745	7136	151 - 429	16888	Tyr-18 to Lys-31, Ser-50 to Arg-59.	H0187: 1	
HTWAB57	735153	7137	24 - 191	16889	Lys-15 to Ile-20.	H0187: 1	
HTWAB46	522817	7138	87 - 218	16890		H0187: 1	
HTWAB42	714291	7139	23 - 217	16891	Ser-1 to Asp-10, Lys-36 to Glu-43.	H0187: 1	
HTWAB32	524291	7140	187 - 321	16892	Leu-7 to Leu-13, Pro-15 to Cys-20, Pro-23 to Cys-28.	H0187: 1	
HTWAB27	522796	7141	54 - 134	16893		H0187: 1	
HTWAB18	522794	7142	124 - 207	16894		H0187: 1	
HTWAA90	789271	7143	196 - 426	16895	Val-3 to Thr-10.	H0187: 1	

HTWAA79	809563	7144	214 - 405	16896	Glu-31 to Leu-40.	H0187: 1	
HTWAA42	522603	7145	2 - 85	16897	Ser-20 to Leu-28.	H0187: 1	
HTWAA32	522797	7146	281 - 439	16898		H0187: 1	
HTWAA31	915276	7147	77 - 337	16899		H0187: 1	
HTWAA22	425133	7148	48 - 287	16900	Glu-39 to Thr-47.	H0187: 1	
HTWAA17	667166	7149	46 - 276	16901	Ser-17 to Lys-32.	H0187: 1	
HTWAE10	968397	7150	237 - 404	16902		H0185: 1, L0509: 1, L0607: 1 and L0493: 1.	
HTUAA93	522950	7151	1 - 267	16903		H0185: 1	
HTUAA79	773978	7152	196 - 360	16904		H0185: 1	
HTUAA63	522080	7153	3 - 134	16905		H0185: 1	
HTUAA59	556958	7154	151 - 318	16906	Pro-33 to Ser-38.	H0185: 1	
HTUAA55	522805	7155	74 - 226	16907	Thr-4 to Asp-10.	H0185: 1	
HTUAA51	725949	7156	216 - 317	16908	Leu-5 to Phe-11.	L0740: 2 and H0185: 1.	
HTUAA45	526606	7157	3 - 203	16909	Gly-39 to Ile-46.	H0185: 1	
HTUAA42	694535	7158	38 - 115	16910	Glu-15 to Cys-23.	H0185: 1	
HTUAA32	522807	7159	95 - 187	16911	Glu-15 to Phe-20.	H0185: 1	
HTUAA25	575308	7160	168 - 452	16912		L0748: 2 and H0185: 1.	
HTUAA23	575319	7161	165 - 371	16913	Arg-6 to Leu-15, Leu-23 to Gly-28.	H0185: 1	
HTUAA21	575312	7162	2 - 343	16914		H0185: 1	
HTUAA11	967919	7163	57 - 173	16915		H0185: 1	
HTUAA06	960761	7164	229 - 384	16916	Asp-1 to Glu-9, Gly-35 to Gly-42.	H0185: 1	
HTUAA02	921277	7165	178 - 2	16917	Ser-1 to Thr-9.	H0185: 1	
HTSH155	576030	7166	129 - 233	16918	Glu-16 to Leu-22.		
HTSHC81	778008	7167	224 - 370	16919	His-3 to Tyr-10, Lys-29 to Asn-34.	H0087: 1	
HTSHB38	709445	7168	3 - 236	16920		H0087: 1 and L0602: 1.	L4q32.3-qter
HTSHB18	666569	7169	20 - 142	16921	Pro-10 to Ala-16.	L0589: 2 and H0087: 1.	
HTSGZ92	975082	7170	1 - 297	16922	Glu-18 to Lys-23, Ser-36 to Arg-41.	H0087: 1, L0438: 1, L0740: 1 and L0758: 1.	
HTSQ88	576077	7171	3 - 245	16923	Glu-3 to Thr-9.	H0087: 1 and L0809: 1.	
					Glu-24 to Arg-38.	H0087: 1	

HTSGQ42	576078	7172	1 - 282	16924	Ala-69 to Arg-81. Gly-1 to Glu-6 Pro-15 to Pro-23, Ser-29 to Glu-46, Leu-48 to Asp-66. Pro-21 to Lys-28.	H0087: 1	
HTSGM53	728289	7173	199 - 420	16925	Asp-64 to Ser-76, Thr-78 to Ala-86.	L0748: 2 and H0087: 1.	
HTSGI39	787027	7174	336 - 539	16926	Ala-1 to Pro-9.	H0087: 1 and L0753: 1.	
HTSFU94	793056	7175	1 - 267	16927	Pro-45 to Pro-55, Pro-63 to Cys-74, Pro-85 to Val-98.	L0747: 3, H0087: 1 and L0731: 1.	
HTSFF64	747003	7176	2 - 412	16928	Pro-45 to Pro-55, Pro-63 to Cys-74, Pro-85 to Val-98.	H0087: 1, L0744: 1 and L0731: 1.	
HTSEX79	524280	7177	20 - 253	16929	Gln-16 to Phe-30.	H0087: 1	
HTSEW02	920963	7178	85 - 264	16930	Ser-53 to Phe-59.	L0803: 3, H0087: 1, L0754: 1 and L0749: 1.	
HTSAA20	836021	7179	156 - 350	16931		H0087: 1 and L0748: 1.	
HTOIZ05	869900	7180	2 - 316	16932		H0264: 1	
HTOIV25	869903	9620	472 - 768	19372	Pro-7 to Pro-17.	H0264: 1	
HTOIT60	740599	7181	2 - 199	16933	Asn-1 to Ile-11.	H0264: 1 and L0754: 1.	
HTOIN69	869925	7182	185 - 304	16934		H0264: 1 and L0748: 1.	
HTOIM95	795719	7183	2 - 187	16935		H0264: 1	
HTOIL36	796022	9621	66 - 260	19373			
HTOIL36	866492	7185	327 - 662	16937	Ser-9 to His-14, Gly-40 to Thr-46. Glu-30 to Asp-36.	H0264: 1	
HTOIF70	457041	7186	208 - 408	16938		H0264: 1 and L0748: 1.	22q13.31 250100, 250800, 250800
HTOIB05	932423	7187	1 - 258	16939	Ser-24 to Asp-31.	H0264: 1, L0748: 1 and L0745: 1.	
HTOIZ49	586144	7188	28 - 219	16940		AR054: 35, AR050: 33, AR051: 28 H0264: 1	
HTOIX57	735004	7189	156 - 341	16941	Asn-36 to His-48.	L0748: 2 and H0264: 1.	
HTOIQ30	584928	7190	252 - 407	16942		H0264: 1 and L0749: 1.	
HTOIL74	765840	7191	1 - 384	16943	Thr-53 to Pro-58,	H0264: 1 and L0747: 1.	

HTOIK90	557829	7192	130 - 273	16944	His-103 to Leu-109, Gln-112 to Tyr-126.		
HTOIJ84	783212	7193	342 - 500	16945	Gln-14 to Tyr-22.	H0264: 1	
HTOIH68	753595	7194	201 - 371	16946	Gln-1 to Arg-8.	L0754: 2 and H0264: 1.	
HTOIH09	961168	7195	59 - 190	16947	Pro-11 to Gly-16.	H0264: 1 and L0605: 1.	
HTOIF08	959992	7196	162 - 488	16948		S0005: 1 and H0264: 1.	
HTOIA89	787088	7197	491 - 252	16949	Pro-1 to Arg-10.	L0459: 1, H0264: 1, L0744: 1 and L0752: 1.	
HTOIA82	844319	7198	41 - 286	16950	Lys-1 to Lys-7.	H0264: 1 and L0748: 1.	
HTOHZ59	869950	7199	26 - 355	16951	Arg-44 to Gly-59.	AR061: 4, AR089: 2	
HTOHX62	537358	7200	3 - 92	16952	Ser-10 to Gln-16, Asp-28 to Pro-36.	H0264: 1 and L0754: 1.	
HTOHT93	791459	7201	162 - 440	16953	Gln-1 to Ile-15.	L0596: 1.	
HTOHR03	924976	7202	6 - 329	16954		AR051: 11, AR054: 1, AR050: 1	
HTOHN89	956264	7203	167 - 427	16955	Pro-64 to Thr-70.	H0264: 1	
HTOHI14	659280	7204	119 - 478	16956	Arg-13 to Gln-21, Phe-25 to Ser-33, Pro-85 to Lys-92.	H0264: 1 and L0366: 1.	
HTOHH78	963216	7205	544 - 888	16957	Asn-42 to Lys-54.	L0794: 2 and H0264: 1.	
HTOHG68	964961	7206	1 - 183	16958		H0264: 1, L0748: 1 and L0749: 1.	
HTOGL88	558488	7207	100 - 285	16959	Thr-4 to Cys-15, Glu-31 to Arg-36, Gln-68 to Thr-80.	H0264: 1	
HTOGU78	529798	7208	52 - 138	16960	Ser-98 to Gln-105.	L0601: 2 and H0264: 1.	
HTOGU77	523533	7209	40 - 132	16961	Ser-10 to Pro-19, Thr-23 to Arg-35, Asn-56 to Arg-61.	H0264: 1	
HTOGC91	790438	7210	308 - 463	16962		Ser-1 to Ser-7.	
HTOFV57	529614	7211	35 - 184	16963		H0264: 1 and L0439: 1.	
HTOFV08	960203	7212	1 - 150	16964	Asn-1 to Gln-14. Ala-11 to Tyr-16.	H0264: 1	

HTOFU55	732454	7213	77 - 196	16965	Lys-43 to Pro-50.	H0264: 1 and L0749: 1.
HTOFT20	527938	7214	1 - 60	16966	Glu-9 to Tyr-16.	H0264: 1
HTOFS74	765918	7215	46 - 174	16967	Pro-15 to Leu-20.	H0264: 1 and L0599: 1.
HTOFO18	911756	7216	1179 - 1376	16968	Pro-1 to Trp-13.	H0264: 1
	911956	9622	980 - 1156	19374	Asn-25 to Leu-34.	
HTOFC06	960346	7217	84 - 266	16969	Arg-15 to Gly-22.	H0264: 1 and L0803: 1.
HTOEX28	936543	7218	280 - 513	16970	Pro-11 to Tyr-16.	H0264: 1 and L0747: 1.
HTOEV91	509938	7219	268 - 38	16971	Thr-24 to Ser-35.	H0264: 1
	534071	9623	581 - 408	19375	Thr-31 to Gly-36.	
HTOET61	742164	7220	323 - 445	16972		H0264: 1 and L0766: 1.
HTOEE28	685375	7221	83 - 259	16973		H0264: 1
	869988	9624	306 - 530	19376		
HTODM08	960113	7222	2 - 400	16974	Leu-12 to Phe-18.	H0264: 1 and L0755: 1.
HTODL10	968395	7223	1 - 282	16975	Ser-4 to Glu-14.	H0264: 1 and L0601: 1.
					Gln-16 to Ala-24.	
HTODD59	738532	7224	287 - 400	16976	Pro-3 to Gln-11.	H0264: 1 and L0754: 1.
HTODA31	698400	7225	56 - 436	16977	Gln-4 to Ala-19.	L0777: 2 and H0264: 1.
					Ser-63 to Asn-80.	
					Glu-104 to Ile-110.	
					Pro-121 to Lys-127.	
HTOCK85	521944	7226	1 - 201	16978	Arg-12 to Tyr-19.	H0272: 1
HTOCK73	870004	7227	103 - 351	16979	Tyr-27 to Thr-33.	H0272: 1
					Asn-62 to Ser-71.	
HTOCK14	529958	7228	2 - 298	16980		H0272: 1
HTOCK03	925368	7229	2 - 124	16981		H0272: 1
HTOCA55	732469	7230	20 - 148	16982	Phe-21 to Lys-33.	H0272: 1
HTOBE60	742315	7231	281 - 469	16983		H0272: 1 and L0748: 1.
HTOBC63	530283	7232	2 - 190	16984	Ile-1 to Asn-6.	H0272: 1
					Gly-10 to Lys-29.	
HTOBC26	870011	7233	1 - 159	16985		H0272: 1
HTOBA33	965151	7234	295 - 525	16986		L0439: 2, H0272: 1 and L0766: 1.

HTOAT88	530183	7235	268 - 411	16987		H0264: 1
HTOAT81	530185	7236	1 - 231	16988		H0264: 1
HTOAT68	530187	7237	11 - 187	16989	Arg-1 to Glu-16.	H0264: 1
HTOAT66	530188	7238	62 - 208	16990		H0264: 1
HTOAT63	523754	7239	122 - 292	16991	Ser-1 to Thr-6.	H0264: 1
HTOAT57	870017	7240	19 - 126	16992	Glu-20 to Arg-27.	H0264: 1
HTOAT50	723595	7241	3 - 176	16993		H0264: 1
HTOAT43	529840	7242	52 - 135	16994		H0264: 1
HTOAT35	521914	7243	2 - 100	16995	Asn-1 to Thr-15.	H0264: 1
HTOAT28	530191	7244	180 - 326	16996	Lys-7 to Gly-15.	H0264: 1
HTOAT127	682115	7245	101 - 295	16997	Phe-5 to Ala-10, Glu-12 to Asn-17, Val-21 to Asp-35, Ile-58 to Asp-64.	H0264: 1
HTOAT06	960581	7246	2 - 241	16998		H0264: 1
HTOAO63	745545	7247	440 - 634	16999	Arg-1 to Ile-9.	H0264: 1 and L0748: 1.
HTOAO01	921744	7248	1 - 165	17000		H0264: 1 and L0754: 1.
HTOAM08	960122	7249	23 - 181	17001	Ser-3 to Thr-11.	H0264: 1 and L0758: 1.
HTOAL84	783261	7250	2 - 118	17002	Ser-20 to Thr-27.	H0264: 1 and L0748: 1.
HTOAK39	709579	7251	109 - 435	17003	Pro-33 to Ser-39.	H0264: 1 and L0581: 1.
HTOAI51	529553	7252	44 - 193	17004		H0264: 1
HTOAI25	529556	7253	1 - 105	17005		H0264: 1
HTOAI15	529557	7254	61 - 261	17006		H0264: 1
HTOAD05	932732	7255	261 - 94	17007		H0264: 1 and L0608: 1.
HTOAA73	764707	7256	89 - 217	17008		H0264: 1 and L0599: 1.
HTJNX95	795376	7257	1 - 465	17009	Leu-29 to Lys-36.	H0488: 1 and L0439: 1.
HTJNT65	771995	7258	195 - 311	17010	Ala-1 to Thr-7.	L0731: 2 and H0488: 1.
HTJNF11	966217	7259	232 - 582	17011	Ser-5 to Asp-11, Arg-18 to Asn-27, Pro-33 to Glu-39, Ser-44 to Thr-50.	H0488: 1 and L0766: 1.
HTJMJ289	973076	7260	2 - 181	17012		H0488: 1
HTJMU86	870312	7261	268 - 408	17013	Ser-1 to Ala-7.	H0488: 1 and L0766: 1.
HTJMQ90	974496	7262	98 - 223	17014		H0488: 1
HTJML71	759890	7263	1 - 261	17015	Phe-11 to Thr-21.	H0488: 1 and L0766: 1.

HTJMF56	733444	7264	257 - 481	17016	Leu-67 to Ser-75.		
HTJAE78	773609	7265	177 - 404	17017	Ala-22 to Tyr-28.	H0488: 1 and L0740: 1.	
HTJAD50	724438	7266	149 - 298	17018	Thr-13 to Lys-18.	H0487: 1	
HTHDS68	753137	7267	3 - 230	17019		H0487: 1 and L0748: 1.	
HTHDR27	578830	7268	150 - 344	17020	Pro-27 to Ser-33, Ser-39 to Pro-44.	H0063: 1 and L0748: 1 and L0749: 1.	
HTHDO05	932174	7269	36 - 302	17021		H0063: 1	
HTHDM10	964906	7270	88 - 228	17022	His-16 to Phe-28, Arg-37 to Lys-43.	H0063: 1 and L0769: 1.	
HTHDL30	578894	7271	3 - 314	17023		H0063: 1	
HTHDI93	792443	7272	170 - 457	17024	Asp-1 to His-6.	L0759: 2 and H0063: 1.	
HTHDI13	490673	7273	381 - 175	17025	Ala-49 to Asn-54.	H0063: 1	
HTHDE83	516372	7274	279 - 413	17026	Ser-5 to Asp-11.	H0063: 1	
HTHDC07	826819	9625	456 - 304	19377			
HTHCV69	953604	7275	327 - 533	17027	Glu-13 to Glu-21.	H0063: 1 and L0764: 1.	
HTHCU42	973309	7276	137 - 343	17028	Pro-28 to Cys-39.	H0063: 1	
HTHCO72	578758	7278	177 - 323	17030	Gln-7 to Arg-15, Ser-22 to Cys-29.	H0063: 1	
HTHCO45	722029	7279	1 - 159	17031		H0063: 1	
HTHCK89	694051	7280	276 - 1	17032	Thr-14 to Gly-22, Ser-40 to Glu-45.	H0063: 1	
	870359	9626	1 - 489	19378	Arg-14 to Thr-27, Leu-36 to Gly-42, Arg-51 to Cys-73, Glu-82 to Arg-92.	H0063: 1, L0657: 1 and L0592: 1.	
	870365	9627	219 - 539	19379	Gln-31 to Trp-36, Arg-61 to Lys-80, Pro-93 to Thr-100.		
HTHCG74	578839	7281	1 - 87	17033	Thr-19 to Gly-24.	H0063: 1	
HTHBY73	946168	7282	1 - 360	17034	Asp-38 to Gly-44, Cys-92 to Gly-98, Ala-101 to Trp-106.	AR061: 12, AR089: 9 H0063: 1	
HTHBW81	519640	7283	134 - 283	17035	His-40 to Asn-47.	H0063: 1	

	625209	9628	485 - 147	19380	Glu-10 to Gln-15.			
HTHBW64	746955	7284	318 - 563	17036	Ser-12 to Lys-20, Ala-31 to His-36.	H0063: 1 and L0754: 1.		
HTHBW25	961627	7285	294 - 554	17037	Phe-20 to Ser-26, Pro-47 to Thr-55.	L0439: 3 and H0063: 1.		
HTHBT36	458387	7286	146 - 310	17038	Asn-15 to Gln-27, Ser-41 to Gly-47.	H0063: 1 and L0748: 1.		
HTHBM85	790305	7287	1 - 483	17039	Gly-1 to Arg-7.	H0063: 1 and L0439: 1.	15q24-q25	118485, 231680, 272800, 272800, 272800, 276700, 602685
HTHBM60	739707	7288	58 - 201	17040	Tyr-21 to Ser-33.	H0063: 1 and L0777: 1.		
HTHBK64	573926	7289	181 - 273	17041	Arg-15 to Leu-20, Gly-24 to Arg-31.	H0063: 1		
HTHBK47	526705	7290	46 - 240	17042	Gly-1 to Arg-9,	H0063: 1		
HTHBK04	925600	7291	2 - 148	17043	Gln-15 to Gly-26, Gln-29 to Phe-35.	H0063: 1		
HTHBH32	699557	7292	119 - 589	17044	Thr-7 to Arg-19, Lys-60 to Leu-68, Val-107 to Gln-119.	L0803: 2, L0750: 2, H0063: 1, L0763: 1, L0772: 1 and L0789: 1.		
HTHBG23	410319	7293	3 - 182	17045	Ile-1 to Cys-8, Ser-11 to Leu-22, His-25 to Gln-33.	H0063: 1		
HTHBC07	954440	7294	323 - 213	17046	Ser-9 to Ser-15.	H0063: 1		
HTHBC04	933029	7295	123 - 16	17047		H0063: 1 and L0764: 1.		
HTHAA24	575493	7296	3 - 239	17048	Ser-49 to Asp-54, Lys-56 to Asp-71.	H0062: 1		
HTGG027	682376	7297	3 - 185	17049	Val-2 to Arg-11.	S0218: 1 and L0754: 1.		
HTGDN71	760059	7298	249 - 428	17050	Phe-1 to Asp-7.	S0218: 1 and L0748: 1.		
HTGDN51	870386	7299	47 - 238	17051		S0218: 1 and L0367: 1.		
HTGPN55	731360	7300	1 - 141	17052	Ala-1 to Ala-7, His-20 to Gly-38.	S0218: 1		
HTGPN05	928205	7301	35 - 145	17053	Leu-7 to His-12.	S0218: 1		
HTGPK70	756534	7302	3 - 131	17054	Gly-7 to Ser-12.	S0218: 1 and L0777: 1.		
HTOEY89	786057	7303	2 - 202	17055	Pro-59 to Trp-67.	S0218: 1		

HTGEX40	711177	7304	76 - 246	17056		S0218: 1		
HTGEX10	963862	7305	301 - 1017	17057	Arg-3 to Ser-9, Arg-11 to Tyr-30, Thr-38 to Tyr-49, Thr-101 to Arg-107, Gly-139 to Tyr-146, Tyr-215 to Lys-223, Glu-1 to Arg-10, Ser-26 to Gly-39, Asp-48 to Phe-55, Ser-68 to Gly-85, Ser-32 to Lys-42, Pro-21 to Gly-31.	AR089: 43, AR061: 9 S0218: 1 and L0623: 1.		
HTGEX03	923445	7306	135 - 317	17058		S0218: 1 and L0605: 1.		
HTGEX48	721660	7307	238 - 425	17059		S0218: 1 and L0599: 1.		
HTGEX89	786665	7308	28 - 228	17060		S0218: 1 and L0748: 1.		
HTGEX17	662369	7309	254 - 508	17061		L0766: 3, S0218: 1, L0789: 1 and L0748: 1.		
HTGEX13	656504	7310	119 - 244	17062		S0218: 1 and L0748: 1.		154275, 162200, 162200, 182138, 239100, 600881, 601954, 602403
HTGEXA37	908606	7311	3 - 122	17063		S0218: 1 and L0758: 1.	17q11.2	
HTGDX37	708877	7312	86 - 466	17064		L0748: 2, S0134: 1 and L0749: 1.		
HTGDX10	963854	7313	86 - 316	17065	Ser-8 to Arg-14.	S0134: 1 and L0517: 1.		
HTGDV61	741381	7314	297 - 515	17066		S0134: 1, L0766: 1 and L0749: 1.		
HTGDV52	796065	7315	104 - 364	17067	Asn-13 to Leu-18, Pro-68 to Ser-73, Thr-46 to Ser-55.	L0747: 2, S0134: 1, L0439: 1, L0749: 1 and L0756: 1.		
HTGCQ86	784676	7316	3 - 392	17068		L0748: 2 and S0134: 1.		
HTGCH60	895628	7317	382 - 134	17069		S0134: 1		
HTGCD55	732247	7318	523 - 678	17070		L0748: 2 and S0134: 1.		
HTGBS94	578786	7319	238 - 399	17071		S0134: 1		
HTGBS70	870405	7320	1 - 120	17072	Glu-14 to Ala-19.	S0134: 1		
HTGBS59	739388	7321	155 - 286	17073		S0134: 1 and L0756: 1.		
HTGBS51	578782	7322	66 - 167	17074		S0134: 1		
HTGBS34	576472	7323	3 - 200	17075		S0134: 1 and L0756: 1.		
HTGBS08	959699	7324	565 - 810	17076	Leu-10 to His-15, Gly-31 to Glu-36, Glu-53 to Gly-65.	L0748: 2 and S0134: 1.		

HTGBR52	727276	7325	230 - 391	17077	Phe-20 to Ser-25.	L0754: 2 and S0134: 1.	16q22	103850, 114835, 121360, 217800, 218030
HTGBN58	738229	7326	114 - 233	17078				
HTGBL15	660483	7327	225 - 518	17079		S0134: 1 and L0439: 1.		
HTGBH09	625756	7328	7 - 126	17080	Glu-29 to Arg-40.	S0134: 1 and L0748: 1.		
HTGBE67	751525	7329	55 - 228	17081		L0598: 2 and S0134: 1.		
HTGBE59	578807	7330	27 - 185	17082	Lys-1 to Lys-7.	S0134: 1		
HTGBE05	932168	7331	127 - 375	17083	Pro-54 to Pro-59.	S0134: 1		
HTGAZ86	785594	7332	96 - 239	17084		S0134: 1 and L0748: 1.		
HTGAZ75	766583	7333	342 - 479	17085		S0134: 1 and L0748: 1.		
HTGAY27	683356	7334	31 - 252	17086		L0367: 2, S0134: 1, L0370: 1, L0652: 1, L0748: 1 and L0605: 1.		
HTGAX83	781275	7335	1 - 210	17087	Asn-18 to Cys-24, Arg-57 to Pro-70.	S0134: 1 and L0756: 1.		
HTGAW78	773666	7336	199 - 417	17088	Leu-43 to Thr-48.	S0134: 1 and L0766: 1.		
HTGAT92	496307	7337	503 - 297	17089		S0134: 1 and L0766: 1.		
HTGAT55	732248	7338	162 - 446	17090	Pro-23 to Pro-32, Arg-46 to Trp-51.	L0749: 2 and S0134: 1.		
HTGAT16	919524	7339	141 - 356	17091		S0134: 1 and L0748: 1.		
HTGAT01	870424	7340	67 - 372	17092		S0134: 1 and L0766: 1.		
HTGAS15	870423	7341	14 - 223	17093	Lys-11 to Cys-18.	S0134: 1, L0756: 1 and L0759: 1.		
HTGAR44	716740	7342	22 - 309	17094	Trp-49 to Ala-54, His-62 to Asp-71, Gln-88 to Ser-96.	S0134: 1 and L0581: 1.		
HTGAK39	705634	7343	3 - 173	17095	Pro-31 to Gln-36.	S0134: 1 and L0766: 1.		
HTGAJ86	785672	7344	3 - 113	17096	Leu-15 to Arg-24.	S0134: 1 and L0749: 1.		
HTGAJ73	764598	7345	194 - 430	17097	Arg-26 to Gln-31, Gly-51 to Gln-59.	S0134: 1 and L0748: 1.		
HTGAJ96	796541	7346	349 - 618	17098	Leu-6 to Gly-11.	S0134: 1, L0748: 1 and L0756: 1.		
HTGAIL5	870441	7347	214 - 462	17099		S0134: 1 and L0749: 1.		
HTGAIL3	955227	7348	178 - 387	17100	Asn-29 to Lys-37.	S0134: 1 and L0748: 1.		

HTGAD62	754052	7349	1 - 126	17101		Gln-29 to Phe-35, Pro-73 to Pro-79, Pro-86 to Pro-99, Ala-13 to Leu-23, Ala-30 to Asp-40,	S0134: 1 and L0731: 1, AR051: 22, AR050: 19, AR054: 17 S0134: 1
HTGAD16	567432	7350	204 - 554	17102			
HTGAD05	932378	7351	223 - 372	17103			
HTGAC17	664513	7352	2 - 220	17104			
HTGAA80	574099	7353	119 - 277	17105			
HTGAA44	574114	7354	42 - 266	17106			
HTDAC74	765656	7355	6 - 311	17107			
HTDAB18	870746	7356	339 - 659	17108			
HTBAB07	954434	7357	3 - 224	17109			
HTBAA86	785846	7358	160 - 420	17110			
HTAJP12	969518	7359	438 - 79	17111			
HTADJ72	880561	7360	237 - 88	17112			
HTAIY90	973870	7361	202 - 411	17113			
HTAIQ05	930947	7362	147 - 359	17114			
HTAGS8	838701	7363	288 - 452	17115			
HTAIF22	910040	7364	179 - 457	17116			
HTAIF11	965738	7365	3 - 461	17117			
HTAHZ02	918304	7366	65 - 277	17118			
HTAGB16	870855	7367	249 - 569	17119			
HTAFC92	790991	7368	113 - 418	17120			

HTAEV23	959129	7369	823 - 329	17121	Leu-7 to Lys-16, Thr-31 to Arg-41, Lys-54 to Asn-61, Ser-89 to His-104, Lys-126 to Lys-131.	AR061: 6, AR089: 4 H0069: 1		
HTAEP05	932459	7370	52 - 228	17122	Arg-41 to Glu-46, Glu-49 to Arg-59.	H0069: 1, L0370: 1, L0776: 1 and L0738: 1.		
HTABK41	870858	7371	1 - 306	17123	Gly-1 to Arg-7.	H0069: 1	2q37.2	
HTABF68	753597	7372	1 - 168	17124	Thr-27 to Ser-40.	H0069: 1 and L0439: 1.		
HTADW88	425065	7373	114 - 221	17125		H0069: 1		
HTADW52	537376	7374	63 - 170	17126	Trp-1 to Gly-7.	H0069: 1		
HTADO10	968307	7375	3 - 161	17127		H0069: 1 and L0438: 1.		
HTADB68	753598	7376	3 - 134	17128	Pro-6 to Lys-17.	H0069: 1 and L0748: 1.		
HTACX05	932467	7377	419 - 661	17129	Ser-16 to Gly-22.	H0069: 1 and L0750: 1.		
HTACW82	778552	7378	3 - 134	17130	Ser-1 to Gly-15.	H0069: 1 and L0748: 1.		
HTABK47	720684	7379	161 - 526	17131		L0749: 2, H0069: 1 and L0748: 1.		
HTABE12	971524	7380	98 - 187	17132		H0069: 1 and L0748: 1.		
HTAAO12	972231	7381	64 - 291	17133		H0069: 1 and L0643: 1.		
HTAAB06	960796	7382	110 - 15	17134	Ser-1 to Gly-9 Pro-12 to Gly-25, Pro-27 to Glu-32.	L0518: 4 and H0069: 1.		
HTAAA45	518652	7383	299 - 123	17135	Asn-6 to Ser-11, Pro-28 to Trp-37, Thr-39 to Lys-50.	H0069: 1		
HTAAA31	693527	7384	130 - 2	17136	Phe-19 to Glu-24.	H0069: 1 and L0740: 1.		
HT4AY23	973773	7385	2 - 169	17137	Pro-2 to Cys-18, Phe-22 to Gly-29.	H0141: 1		
HT3TA67	752169	7386	1 - 483	17138	Glu-1 to Ser-9, Ser-43 to Glu-53, Leu-84 to Phe-92, Leu-96 to Ile-101.	L0439: 3 and H0223: 1.		
HT3SH28	508061	7387	1 - 210	17139	Glu-16 to Ser-21, Thr-48 to Lys-56.	H0222: 1		
HT3SA81	589206	7388	3 - 272	17140	Pro-27 to Ser-35, Pro-51 to Trp-58.	H0222: 1	1q21	104770, 107670, 110700, 135940.

HT3SA80	781631	7389	134 - 349	17141	Gly-27 to Ala-33.	H0222: 1	145001, 146790,
HT3SA71	766391	7390	54 - 326	17142	Gln-20 to Phe-26, Val-73 to Asn-91.	H0222: 1	152445, 152445,
HT3SA56	522757	7391	233 - 418	17143	Asn-32 to Lys-43.	H0222: 1	159001, 174000,
HT3BK75	766488	7392	1 - 273	17144	Val-27 to Ser-33.	H0159: 1 and L0743: 1.	179755, 182860,
HT3BF33	522782	7393	80 - 181	17145	Val-27 to Ser-33.	H0159: 1	182860, 182860,
HT2TA82	522751	7394	77 - 160	17146	Glu-38 to Ser-44.	H0221: 1	191315, 230800,
HT2TA37	522754	7395	20 - 193	17147	Ser-9 to Ser-14.	H0220: 1	230800, 266200,
HT2SA86	524290	7396	101 - 265	17148	Glu-30 to Ile-36, Tyr-38 to His-43.	H0220: 1	600897, 601105,
HT2SA63	518341	7397	37 - 171	17149	Pro-1 to Asn-7.	H0220: 1	601412, 601652,
HT2SA50	522771	7398	180 - 326	17150	Gly-23 to Ile-28.	L0748: 2 and H0220: 1.	602491
HT2SA48	508077	7399	52 - 273	17151	Gly-23 to His-31.	H0220: 1	
HT2SA47	578704	7400	110 - 247	17152		H0220: 1	
HT2SA38	840184	7401	21 - 155	17153		H0220: 1	
HT2SA37	695038	7402	2 - 97	17154		H0220: 1	
HT2SA26	522770	7403	403 - 272	17155	Lys-1 to Leu-11.	H0220: 1 and L0439: 1.	
HT2SA13	870917	7404	124 - 336	17156	Glu-1 to Val-11.	H0220: 1	
HT1TB40	575355	7405	114 - 251	17157	Leu-34 to Tyr-44.	H0219: 1	
HSYDH60	949156	7406	115 - 282	17158	Pro-20 to Ser-25, Phe-49 to Trp-54.	L0731: 2, H0551: 1, L0747: 1 and L0750: 1.	
HSYCZ04	976955	7407	233 - 376	17159		H0551: 1 and L0745: 1.	
HSYCV01	940661	7408	1 - 522	17160	Thr-11 to Arg-16.	H0551: 1 and L0740: 1.	

HSYCS04	926943	7409	247 - 134	17161			H0551: 1 and L0542: 1.
HSYBZ51	725386	7410	2 - 388	17162			H0551: 1 and L0752: 1.
HSYBX42	713630	7411	1 - 210	17163			H0551: 1 and L0601: 1.
HSYBW55	731627	7412	245 - 532	17164		Arg-10 to Arg-20, Ala-35 to Gly-54.	
HSYBK77	772067	7413	59 - 541	17165		Ile-1 to Asn-10.	H0551: 1, L0740: 1 and L0777: 1.
HSYBH70	756492	7414	89 - 475	17166		Val-1 to Asp-6, Val-10 to Asn-20, Gly-33 to Asn-46, Glu-57 to Ser-62, Ala-69 to Gln-74, Asp-90 to Ser-100.	L0439: 2, H0551: 1 and L0745: 1.
HSYBH16	661807	7415	2 - 571	17167		Pro-10 to Arg-16.	H0551: 1, L0747: 1 and L0777: 1.
HSYAV79	928403	7416	85 - 408	17168			H0551: 1 and L0766: 1.
HSYAU07	953032	7417	1 - 216	17169			H0551: 1, L0779: 1, L0592: 1 and L0608: 1.
HSYAF81	493771	7418	134 - 3	17170		Leu-22 to Ala-28, Lys-33 to Arg-44.	H0551: 1
HSMBD15	659891	7419	2 - 421	17171		Ser-36 to Thr-42.	S0298: 1 and L0740: 1.
HSMBD78	917244	7420	374 - 610	17172			S0298: 1 and L0759: 1.
HSMBA83	780932	7421	9 - 239	17173		Pro-9 to Trp-16, Pro-55 to Leu-61, Asn-70 to Gly-77.	S0298: 1 and L0756: 1.
HSMBA39	715630	7422	166 - 363	17174			L0770: 2, L0749: 2, S0298: 1, L0653: 1, L0776: 1, L0659: 1 and L0789: 1.
HSAZQ69	754362	7423	170 - 298	17175			S0114: 1 and L0754: 1.
HSAZP83	780400	7424	283 - 510	17176		Arg-15 to Ile-23, Thr-33 to Phe-39.	S0114: 1 and L0745: 1.
HSAZP65	747422	7425	15 - 284	17177			S0114: 1 and L0754: 1.
HSAZD64	746074	7426	326 - 517	17178		Leu-8 to Trp-13.	S0114: 1 and L0756: 1.
HSAZI53	727757	7427	239 - 337	17179		Leu-9 to His-14.	L0748: 2 and S0114: 1.
HSAZG52	726195	7428	274 - 396	17180		Ile-16 to Gly-21.	L0754: 2 and S0114: 1.
HSAZG23	950023	7429	120 - 467	17181			AR089: 40, AR061: 7

	963220	9629	466 - 152	19381	Pro-13 to Asp-20, Thr-27 to Arg-32, Lys-53 to Trp-59, Pro-65 to Gly-70, Gly-77 to Gly-86.	L0523: 2, S0114: 1, L0748: 1 and L0749: 1.
HSAZA42	866817	7430	136 - 324	17182	Ser-16 to Lys-21.	S0114: 1
HSAZA39	705365	7431	131 - 328	17183	Ile-15 to His-21.	S0114: 1 and L0594: 1.
HSAZA06	935451	7432	173 - 364	17184	Gln-9 to Leu-16.	S0114: 1
HSAYT37	708803	7433	170 - 316	17185	His-23 to Arg-29.	S0114: 1 and L0748: 1.
HSAYT29	866821	7434	343 - 585	17186		S0114: 1 and L0530: 1.
HSAYR63	744333	7435	-1 - 318	17187		S0114: 1 and L0748: 1.
HSAYO42	713793	7436	169 - 405	17188	Arg-8 to Phe-16, Gln-25 to Gly-31, Gln-37 to Asn-45.	S0114: 1 and L0754: 1.
HSAYK93	791546	7437	215 - 433	17189	Arg-16 to His-25, Arg-47 to Phe-57, Pro-60 to Ser-68.	L0749: 2 and S0114: 1.
HSAXS16	661933	7438	1 - 165	17190	Lys-40 to Ser-45, Cys-49 to Arg-55.	S0114: 1 and L0748: 1.
HSAXM08	866838	7439	343 - 648	17191	Val-34 to Asp-39, Ser-73 to Ser-87, Lys-93 to Arg-100.	S0114: 1
	958886	9630	212 - 499	19382		
HSAXI95	721825	7440	135 - 446	17192		S0114: 1 and L0439: 1.
HSAXI93	792516	7441	301 - 453	17193	Gln-6 to Lys-12.	S0114: 1 and L0757: 1.
HSAXI05	932387	7442	151 - 357	17194	Gln-6 to Asn-20, Val-22 to Thr-36.	S0114: 1 and L0756: 1.
HSAXH85	784475	7443	32 - 181	17195		S0114: 1 and L0748: 1.
HSAHG45	457077	7444	67 - 243	17196	Gln-13 to Ser-21.	S0114: 1 and L0756: 1.
HSAHE42	714040	7445	3 - 227	17197		L0742: 2 and S0114: 1.
HSAHE33	702673	7446	131 - 334	17198		S0114: 1 and L0753: 1.
HSAHC55	752368	7447	363 - 202	17199	Lys-24 to Gln-30, Ser-46 to Gln-54.	S0114: 1 and L0600: 1.
HSAHB89	787069	7448	102 - 224	17200	Leu-2 to Asp-12.	S0114: 1 and L0745: 1.

HSAWY92	792888	7449	114 - 389	17201	Leu-2 to Thr-7.	S0114: 1, L0748: 1 and L0749: 1.	
HSAWY81	574184	7450	21 - 239	17202	Tyr-21 to Arg-26, Val-48 to Ala-54.	S0114: 1	
HSAWY79	574182	7451	1 - 204	17203	His-56 to Ser-62.	S0114: 1	
HSAWY33	866861	7452	85 - 222	17204		S0114: 1 and L0592: 1.	
HSAWY07	953851	7453	241 - 381	17205		S0114: 1	
HSAWW74	765818	7454	40 - 120	17206		S0114: 1 and L0439: 1.	9p22.2
HSAWU12	968804	7455	72 - 368	17207	Ile-1 to Leu-8, Ser-31 to Thr-40, Glu-69 to Pro-80.	S0114: 1 and L0748: 1.	
HSAWS74	765819	7456	166 - 345	17208	Asn-44 to Arg-57.	S0114: 1 and L0595: 1.	
HSAWS40	711441	7457	37 - 159	17209		S0114: 1 and L0748: 1.	
HSAWR08	959943	7458	3 - 359	17210	Asn-13 to Lys-20, Val-92 to Arg-98.	L0758: 3 and S0114: 1.	
HSAWO08	959938	7459	176 - 319	17211	Ser-20 to Leu-28.	S0114: 1 and L0717: 1.	
HSAWL77	772444	7460	175 - 285	17212		L0748: 4 and S0114: 1.	
HSAWL68	753569	7461	143 - 292	17213	Gly-5 to Glu-10.	S0114: 1 and L0750: 1.	
HSAWK67	526767	7462	212 - 361	17214		S0114: 1	
HSAWK32	418690	7463	14 - 220	17215		S0114: 1	
HSAWK21	954897	7464	14 - 283	17216	Glu-51 to Asn-61.	S0114: 1	
HSAWK20	866872	7465	134 - 307	17217		S0114: 1	
HSAWK13	971177	7466	273 - 539	17218	Pro-15 to Phe-22, Gly-46 to His-55.	S0114: 1, L0779: 1 and L0591: 1.	
HSAW111	964949	7467	167 - 322	17219		S0114: 1 and L0754: 1.	
HSAWG44	716820	7468	146 - 346	17220	Leu-3 to Lys-9.	L0753: 2, S0114: 1 and L0521: 1.	
HSAWF86	675220	7469	38 - 253	17221		S0114: 1 and L0748: 1.	
HSAWF52	728598	7470	2 - 328	17222		S0114: 1 and L0745: 1.	
HSAWD34	706928	7471	194 - 349	17223		S0114: 1 and L0740: 1.	
HSAWD24	677435	7472	3 - 236	17224		S0114: 1 and L0748: 1.	
HSAWD15	660572	7473	316 - 447	17225		S0114: 1, L0438: 1 and L0439: 1.	
HSAWC55	866890	7474	102 - 347	17226	Ser-1 to Glu-12.	S0114: 1	
HSAWB70	757409	7475	12 - 170	17227		S0114: 1 and L0748: 1.	

HSAV282	881166	7476	115 - 291	17228			S0114: 1 and L0748: 1.
HSAV263	574195	7477	113 - 253	17229	Thr-5 to Thr-10.		S0114: 1
HSAVY10	968230	7478	36 - 212	17230			S0114: 1 and L0601: 1.
HSAVY02	920721	7479	81 - 422	17231	Thr-11 to Ser-18, Leu-56 to Gly-70.		S0114: 1, L0527: 1 and L0682: 1.
HSAVX22	674919	7480	116 - 247	17232			S0114: 1 and L0748: 1.
HSAVW13	862754	7481	115 - 225	17233			S0114: 1 and L0748: 1.
HSAVY36	866886	7482	2 - 208	17234			S0114: 1, L0748: 1 and L0361: 1.
HSAVS48	721856	7483	21 - 131	17235			S0114: 1 and L0746: 1.
HSAVQ73	929276	7484	501 - 695	17236	Leu-47 to Asp-61.		S0114: 1 and L0604: 1.
HSAVP56	733616	7485	3 - 206	17237			S0114: 1 and L0748: 1.
HSAVO05	932579	7486	35 - 253	17238	Ser-26 to Cys-33, Gly-53 to Pro-62.		S0114: 1 and L0773: 1.
HSAVN72	574129	7487	3 - 296	17239			S0114: 1 and L0748: 1.
HSAVN48	526505	7488	1 - 144	17240			S0114: 1
HSAVN24	574106	7489	2 - 112	17241	Glu-1 to Trp-16, His-18 to Ser-26.		S0114: 1
HSAVK84	783183	7490	127 - 246	17242			S0114: 1 and L0748: 1.
HSAV784	783182	7491	84 - 233	17243			L0748: 3, S0114: 1, L0740: 1 and L0749: 1.
HSAV153	728361	7492	1 - 219	17244	Lys-1 to Leu-25.		L0605: 2 and S0114: 1.
HSAVG96	796544	7493	86 - 238	17245			S0114: 1 and L0598: 1.
HSAVF17	664515	7494	221 - 313	17246	Asn-19 to Phe-24.		S0114: 1, L0766: 1, L0665: 1 and L0748: 1.
HSAVE61	742076	7495	238 - 447	17247	Gly-43 to Ser-57.		S0114: 1 and L0599: 1.
HSAVA79	781800	7496	1 - 111	17248	Val-2 to Gly-7.		S0114: 1 and L0731: 1.
HSAVA22	674977	7497	79 - 189	17249	Phe-17 to Gly-23.		S0114: 1, L0521: 1 and L0748: 1.
HSAUJ21	967609	7498	42 - 338	17250	Arg-13 to Gly-19.		S0114: 1 and L0766: 1.
HSAUW24	679279	7499	57 - 341	17251	Tyr-46 to Phe-51.		S0114: 1 and L0748: 1.
HSAUO25	679278	7500	315 - 659	17252	Asn-32 to Pro-40, Ser-49 to Cys-54.		L0748: 3, L0749: 3, L0596: 2 and S0114: 1.
HSAUQ81	866192	7501	49 - 309	17253			AR051: 41, AR050: 27,

	899273	9631	201 - 389	19383			AR054: 22 S0114: 1 and L0766: 1.	
HSAU054	750928	7502	161 - 373	17254			S0114: 1 and L0748: 1.	
HSAU044	716847	7503	61 - 201	17255		Pro-16 to Phe-22.	S0114: 1 and L0754: 1.	
HSAU184	908440	7504	3 - 302	17256		Ala-23 to Asp-28, Glu-53 to Tyr-60.	AR061: 1, AR089: 1 S0114: 1 and L0686: 1.	
HSAUK72	766240	7505	110 - 280	17257		Pro-11 to Ser-17.	S0114: 1 and L0591: 1.	
HSAUK48	883205	7506	2 - 238	17258		Pro-5 to Gly-15, Ala-35 to Glu-40.	S0114: 1 and L0750: 1.	
HSAUI23	422961	7507	485 - 129	17259			L0789: 2, S0114: 1, L0748: 1 and L0599: 1.	
	843427	9632	405 - 608	19384		Leu-3 to Gly-11, Glu-14 to Ala-21.		
HSAUH06	954543	7508	2 - 211	17260			S0114: 1 and L0599: 1.	
HSAUH02	917314	7509	3 - 224	17261			S0114: 1, L0749: 1 and L0589: 1.	
HSAUG74	765859	7510	358 - 483	17262			S0114: 1, L0740: 1 and L0747: 1.	
HSAUD02	920827	7511	37 - 237	17263			S0114: 1 and L0748: 1.	
HSAUB69	514840	7512	179 - 406	17264		Gly-15 to Lys-20.	S0114: 1	
	567319	9633	50 - 229	19385				
HSAUB39	705677	7513	157 - 357	17265		Lys-23 to Thr-35.	S0114: 1 and L0748: 1.	
HSAU281	778268	7514	101 - 268	17266		Glu-31 to Tyr-43.	L0745: 2 and S0114: 1.	
HSAU222	674986	7515	3 - 401	17267		Pro-94 to Arg-108.	L0779: 4, L0758: 2, S0114: 1 and L0749: 1.	
HSAUW91	790394	7516	223 - 333	17268			S0114: 1 and L0748: 1.	
HSAUW51	725879	7517	284 - 529	17269		Leu-12 to Lys-31.	S0114: 1 and L0740: 1.	
HSAU96	843424	7518	526 - 681	17270			S0114: 1 and L0748: 1.	
HSAU25	866949	7519	2 - 184	17271		Lys-36 to Ile-41, Val-56 to Lys-61.	S0114: 1, L0766: 1 and L0779: 1.	
HSAUQ55	732406	7520	57 - 350	17272		Asn-3 to Ser-8, Asn-16 to His-24, Phe-42 to Gly-48, Arg-71 to Lys-81, Gly-88 to Gly-98.	S0114: 1 and L0748: 1.	

HSATM64	862436	7521	356 - 640	17273	Gly-1 to Gly-8, Ser-26 to Ala-39, Ser-52 to Arg-58, Ser-63 to Leu-71, Ala-90 to Ser-95.	L0747: 3, L0756: 2, S0114: 1 and L0750: 1.	
HSATM19	866954	7522	281 - 448	17274		S0114: 1 and L0748: 1.	
HSATM09	456326	7523	42 - 176	17275		S0114: 1 and L0599: 1.	
HSATL02	920825	7524	3 - 227	17276		L0518: 3 and S0114: 1.	
HSATL58	866955	7525	124 - 429	17277	Arg-1 to Asn-8, Glu-10 to Asp-16.	S0114: 1 and L0509: 1.	
HSATE53	728414	7526	224 - 448	17278	Pro-51 to Pro-58.	L0748: 3 and S0114: 1.	
HSATC79	602167	7527	269 - 424	17279	Ser-14 to Thr-23.	S0114: 1 and L0600: 1.	
HSATC72	761511	7528	219 - 332	17280	Asp-14 to Thr-20.	L0731: 2 and S0114: 1.	
HPSAD92	790524	7529	77 - 298	17281		H0074: 1 and L0748: 1.	
HPSAB26	429558	7530	142 - 282	17282	Asp-1 to Gly-7, Pro-41 to Gln-47.	H0074: 1	
HPSAB24	518747	7531	171 - 341	17283	Pro-5 to Ala-13, Pro-15 to Thr-24.	H0074: 1	
HPSAB15	503600	7532	126 - 401	17284		L0748: 2, L0749: 2 and H0074: 1.	
HPSAA94	793000	7533	356 - 75	17285		H0074: 1	
HPSAA93	867387	7534	2 - 178	17286		H0074: 1	
HPSAA91	503543	7535	275 - 6	17287	Ser-31 to Pro-37, Pro-52 to Trp-60, Leu-66 to Leu-71.	H0074: 1	
HPSAA75	503544	7536	317 - 138	17288		H0074: 1 and L0748: 1.	
HPSAA41	503569	7537	257 - 355	17289	Leu-1 to Asn-11.	H0074: 1	
HPSAA30	503567	7538	29 - 253	17290	Val-19 to Met-29.	L0766: 3 and H0074: 1.	
HPSAA03	960941	7539	529 - 362	17291		H0074: 1	
HNNTA24	911178	7540	189 - 596	17292	Leu-98 to Ala-105, Pro-120 to Gly-127.	AR050: 87, AR054: 77, AR051: 70 H0679: 1	
	972489	9634	182 - 589	19386	Leu-98 to Ala-105, Pro-120 to Gly-127.		
HNHPF67	859817	7541	191 - 475	17293		S0216: 1 and L0748: 1.	
HNHPD68	974350	7542	13 - 252	17294	Thr-1 to His-12.	S0216: 1	

HNHOX01	915303	7543	3 - 176	17295	Glu-12 to Ser-18, Arg-24 to Pro-35, Pro-43 to Arg-49.	S0216: 1	
HNHOV24	974344	7544	138 - 278	17296	Lys-21 to Pro-27, Arg-41 to Thr-47.	L0532: 1 and S0216: 1.	
HNHOQ36	859824	7545	108 - 473	17297	Ala-47 to Gly-52, Pro-87 to Ser-98.	L0493: 2 and S0216: 1.	
HNHOP92	790911	7546	2 - 256	17298	Gly-1 to Ser-7, Glu-9 to Asp-18.	S0216: 1 and L0589: 1.	
HNHOP88	974327	7547	3 - 215	17299	Gln-43 to His-51.	S0216: 1	
HNHOP32	974330	7548	293 - 445	17300	Ser-61 to Pro-72.	S0216: 1	
HNHOI63	838790	7549	103 - 336	17301	Asn-1 to Asn-10,	L0521: 1 and S0216: 1.	
HNHOI07	952285	7550	167 - 358	17302	Glu-12 to Val-20, Trp-29 to Gly-39, Ser-33 to Thr-60.	S0216: 1 and L0592: 1.	
HNHOP94	948720	7551	2 - 508	17303	Pro-94 to Ser-102.	AR051: 25, AR050: 24, AR054: 20, AR089: 17, AR061: 9, S0216: 1	
HNHNT20	773683	7552	133 - 279	17304	Ile-1 to Ser-16.	S0216: 1 and L0599: 1.	6p24
HNHNQ08	958377	7553	148 - 429	17305		S0216: 1 and L0748: 1.	134570
HNHNPN81	928378	7554	143 - 514	17306		AR051: 23, AR054: 11, AR050: 9, AR061: 8, AR089: 5, S0216: 1	
HNHNPN66	918684	7555	3 - 326	17307		S0216: 1	
HNHNQ01	915358	7556	200 - 367	17308		S0216: 1 and L0749: 1.	
HNHNPN39	950971	7557	249 - 88	17309	Val-2 to Thr-12.	S0216: 1 and L0750: 1.	
HNHNK02	918715	7558	225 - 512	17310	Leu-33 to Ser-40.	L0370: 1 and S0216: 1.	
HNHNJ24	859836	7559	146 - 403	17311		L0775: 1, S0216: 1, L0438: 1 and L0752: 1.	
HNHNJ09	800482	7560	223 - 483	17312	Ser-28 to Arg-33.	S0216: 1	
HNHNH51	974343	7561	1 - 255	17313		S0216: 1	
HNHNH85	870121	7562	71 - 529	17314	Pro-21 to Ser-26, His-29 to Arg-35.	L0753: 2 and S0216: 1.	

HNHND81	974334	7563	2 - 229	17315	Pro-41 to Leu-50, Thr-87 to Arg-99, Thr-24 to Ser-29, Pro-31 to Thr-40, Leu-44 to Val-61.	S0216: 1	
HNHND07	952273	7564	186 - 320	17316		S0216: 1 and L0748: 1.	
HNHNB92	790945	7565	34 - 342	17317	Pro-47 to Gly-55.	S0216: 1 and L0777: 1.	
HNHNB85	783887	7566	149 - 322	17318		S0216: 1 and L0745: 1.	
HNHNB02	918709	7567	124 - 234	17319		S0216: 1 and L0748: 1.	
HNHNM249	859842	7568	220 - 426	17320		S0216: 1 and L0589: 1.	
HNHNM152	975207	7569	2 - 190	17321	Asn-7 to Ile-25, Ala-29 to His-41.	S0216: 1	
HNHMS26	975206	7570	155 - 286	17322	Ile-33 to Ser-41.	S0216: 1	
HNHMQ86	784986	7571	2 - 151	17323	Pro-1 to Thr-7.	S0216: 1 and L0731: 1.	
HNHMQ28	859847	7572	6 - 131	17324	Pro-26 to Tyr-31.		
HNHMF02	918649	7573	2 - 169	17325	Phe-1 to Phe-7, Lys-23 to Lys-30.	S0216: 1 and L0748: 1.	
HNHLY58	859849	7574	571 - 323	17326		S0216: 1 and L0758: 1.	
HNHLLW34	859850	7575	353 - 66	17327	Glu-9 to Lys-19.	L0365: 1 and S0216: 1.	
HNHLLW10	963542	7576	16 - 213	17328	Lys-8 to Cys-14.	S0216: 1 and L0438: 1.	
HNHLLR36	859851	7577	402 - 587	17329		S0216: 1 and L0361: 1.	
HNHLLQ07	952279	7578	387 - 566	17330		L0520: 1 and S0216: 1.	
HNHLLG36	855071	7579	335 - 556	17331		L0749: 3 and S0216: 1.	
HNHLLD70	756668	7580	3 - 221	17332	Ser-10 to Thr-21, Pro-23 to Asn-34, Leu-42 to Thr-51.	L0659: 1, L0663: 1, S0216: 1 and L0601: 1.	
HNHLLC01	915363	7581	277 - 519	17333		S0216: 1 and L0592: 1.	
HNHLLB03	923091	7582	2 - 256	17334	Ala-17 to Cys-32, Glu-38 to Lys-47, Ser-58 to Ala-64, Arg-66 to Trp-72.	L0385: 1 and S0216: 1. L0741: 4 and S0216: 1.	
HNHKT86	785104	7583	379 - 44	17335			
HNHKKQ50	723868	7584	84 - 434	17336		L0439: 2 and S0216: 1. L0748: 2, L0766: 1, S0216: 1 and L0779: 1.	

HNHRP03	923276	7585	350 - 679	17337	Pro-20 to His-29	L0758: 3 and S0216: 1.
HNHK161	859925	7586	335 - 505	17338		L0766: 1, S0216: 1 and L0740: 1.
HNHIS54	730706	7587	189 - 1	17339		S0053: 1 and L0439: 1.
HNHR83	781195	7588	36 - 284	17340		S0053: 1 and L0439: 1.
HNHC85	784345	7589	137 - 442	17341	Asp-1 to Pro-11, Gly-27 to Cys-34.	S0053: 1, L0748: 1 and L0749: 1.
HNHHL58	736064	7590	136 - 501	17342	Ile-2 to Arg-8, Phe-21 to Gln-30.	S0053: 1 and L0596: 1.
HNHHG53	830068	7591	172 - 336	17343		S0053: 1 and L0591: 1.
HNHHP86	784698	7592	168 - 383	17344		S0053: 1
HNHHP61	741836	7593	86 - 316	17345		S0053: 1
HNHHP52	726576	7594	101 - 292	17346	Thr-35 to Pro-40.	S0053: 1
HNHHP39	705407	7595	149 - 346	17347	Glu-16 to Pro-21, Pro-30 to Pro-36, Arg-47 to Ser-58, Leu-60 to Lys-65.	S0053: 1
HNHHP38	709278	7596	41 - 184	17348	Ile-38 to Pro-47.	S0053: 1
HNHHP37	708714	7597	2 - 229	17349		S0053: 1
HNHHP28	694365	7598	3 - 227	17350	Glu-5 to Pro-14.	S0053: 1 and L0600: 1.
HNHHP13	657245	7599	138 - 55	17351	Pro-1 to Lys-12, Lys-18 to Leu-24.	S0053: 1
HNHHP03	924221	7600	101 - 193	17352	Ser-10 to Val-16.	S0053: 1
HNHHC61	741839	7601	89 - 196	17353	Pro-1 to Gln-8.	L0758: 2, S0053: 1 and L0602: 1.
HNHGX61	948731	7602	136 - 291	17354	Pro-26 to Lys-34, Pro-47 to Gln-52.	S0053: 1 and L0589: 1.
HNHGY62	743400	7603	1 - 228	17355	Ser-61 to Pro-70.	S0053: 1
HNHGU56	859953	7604	117 - 440	17356		L0369: 1 and S0053: 1.
HNHGT92	496480	7605	12 - 164	17357		S0053: 1
HNHGT84	781977	7606	110 - 307	17358		S0053: 1
HNHGT80	775409	7607	45 - 260	17359	Gln-8 to Lys-14, Arg-20 to Gln-25.	S0053: 1
HNHGT15	660304	7608	144 - 311	17360	Ser-13 to Gln-27.	L0589: 2 and S0053: 1.
HNHGT09	625615	7609	1 - 243	17361	Thr-2 to Asp-10.	S0053: 1

HNHGS24	677228	7610	350 - 748	17362	Asp-16 to Ile-21, Ile-25 to Lys-36.	L0749: 3, L0748: 2 and S0053: 1.		
HNHGO45	582523	7611	547 - 879	17363	Cys-51 to Ser-57, Arg-68 to His-77, Asn-93 to His-102.	L0748: 2 and S0053: 1.	11p15.5-p15.4	125852, 126452, 126452, 130650, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 150000, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 257200, 257200, 600856, 601680, 602631, 602631
HNHGN27	859972	7612	3 - 314	17364	Glu-5 to Ser-14, Pro-22 to Cys-27.	L0758: 2 and S0053: 1.		
HNHGI60	740396	7613	159 - 488	17365	Glu-92 to Lys-103.	L0745: 4 and S0053: 1.		
HNHGI03	923829	7614	1 - 309	17366	Glu-92 to Lys-103.	S0053: 1		
HNHGH83	781208	7615	2 - 241	17367	Ala-8 to Leu-13, Lys-26 to Val-32.	S0053: 1 and L0592: 1.		
HNHGH22	859983	7616	3 - 251	17368	His-1 to Thr-7, Glu-28 to Asn-37.	S0053: 1 and L0748: 1.		
HNHGG39	561093	7617	117 - 329	17369		AR051: 10, AR050: 10, AR054: 9		
HNHGF28	686735	7618	18 - 443	17370	Pro-5 to Gly-12.	S0053: 1 and L0361: 1.		
HNHGE91	790212	7619	3 - 242	17371	Glu-18 to Ser-29, Val-31 to Arg-41, Gly-47 to Phe-54.	S0053: 1 and L0740: 1.		
HNHGE81	777955	7620	44 - 295	17372	Lys-29 to Trp-40.	S0053: 1		

HNHGE79	775214	7621	107 - 286	17373	Glu-29 to Asp-35.	S0053: 1
HNHGE68	753052	7622	1 - 174	17374	Gly-1 to Ser-7, Thr-12 to Lys-19, Thr-50 to Glu-59.	S0053: 1 L0589: 3 and S0053: 1. S0053: 1
HNHGE44	683294	7623	1 - 339	17375	Pro-16 to Tyr-24.	S0053: 1
HNHGE31	698046	7624	59 - 169	17376	Gly-1 to Arg-17, Ser-24 to Cys-33, Thr-78 to Arg-88.	S0053: 1
HNHGE24	677234	7625	50 - 154	17377		
HNHGE12	970722	7626	1 - 396	17378		
HNHGD08	959494	7627	1 - 249	17379	Ala-24 to Glu-30.	S0053: 1 and L0603: 1.
HNHGC92	792740	7628	109 - 285	17380	Asn-22 to Lys-31.	S0053: 1
HNHGC91	790199	7629	103 - 225	17381	Ser-1 to Glu-9, Pro-15 to Thr-27, His-29 to Tyr-39.	S0053: 1
HNHGC45	720747	7630	3 - 359	17382	Cys-20 to Ile-27, Thr-45 to Gly-51, Gly-93 to Gly-101.	L0617: 1, L0157: 1 and S0053: 1.
HNHGC32	699286	7631	1 - 192	17383	Lys-36 to Tyr-41.	S0053: 1
HNHGC21	670949	7632	58 - 423	17384	Gln-80 to Leu-87.	S0053: 1
HNHGC20	859991	7633	14 - 247	17385	Arg-5 to Glu-10.	S0053: 1
HNHGC19	668692	7634	2 - 250	17386		S0053: 1
HNHGC08	962224	7635	53 - 271	17387	Glu-11 to Asp-19.	S0053: 1
HNHGC07	953414	7636	44 - 328	17388	Ser-14 to Leu-20, Arg-62 to Gly-68.	S0053: 1
HNHGB12	970726	7637	377 - 676	17389		L0761: 1, S0053: 1 and L0758: 1.
HNHGA53	973803	7638	111 - 260	17390		S0053: 1
HNHFY68	752305	7639	3 - 188	17391	Asp-19 to Glu-28, Ser-38 to Arg-44, Gly-51 to Lys-62.	S0053: 1 and L0592: 1.
HNHFY08	959475	7640	287 - 448	17392		L0365: 1 and S0053: 1.
HNHFEX10	961275	7641	55 - 222	17393	Gln-20 to Glu-26, Ser-32 to Glu-47.	S0053: 1
HNHFEX08	959484	7642	33 - 218	17394	Ala-9 to Asn-17.	S0053: 1 and L0592: 1.
HNHFEX07	953403	7643	111 - 314	17395	Tyr-17 to His-22.	S0053: 1 and L0779: 1.

HNHFV49	975415	7644	520 - 768	17396		AR061: 12, AR089: 5 S0053: 1	
HNHFV30	566339	7645	2 - 151	17397	Pro-23 to Trp-32.	AR051: 103, AR050: 100, AR054: 83 S0053: 1	
HNHFU64	937179	7646	264 - 467	17398	Pro-37 to Ala-47.	AR051: 11, AR061: 3, AR089: 2, AR050: 2, AR054: 1 S0053: 1	
HNHFU56	733513	7647	155 - 352	17399	Gln-6 to Ser-15, Pro-17 to Ala-29.	S0053: 1 and L0748: 1.	
HNHFU12	970882	7648	220 - 387	17400		S0053: 1 and L0608: 1.	
HNHFR69	757646	7649	256 - 429	17401		S0053: 1 and L0589: 1.	
HNHFP94	888666	7650	3 - 287	17402	Lys-47 to Pro-54.	AR051: 88, AR050: 84, AR054: 67 S0053: 1	
HNHFP89	786967	7651	129 - 284	17403		S0053: 1 and L0745: 1.	
HNHFP03	924606	7652	1 - 204	17404	Pro-23 to Gly-29.	L0766: 1 and S0053: 1.	
HNHFM74	506283	7653	1 - 270	17405	Gly-12 to Trp-17.	S0053: 1	
HNHFM54	486847	7654	341 - 514	17406	Lys-1 to Asp-9, Lys-15 to Glu-21, Glu-29 to Gly-34.	S0053: 1	
HNHFL96	490923	9635	631 - 329	19387			
HNHFL28	576414	7655	160 - 495	17407	Ser-1 to Lys-10, Gly-16 to Gly-27.	S0053: 1	
HNHHP24	973273	7656	347 - 469	17408	Ser-30 to Gly-38.	S0053: 1	
HNHHP24	903741	7657	28 - 480	17409	His-8 to Gly-18, Ala-39 to Gly-45, Pro-94 to Glu-101.	AR054: 20, AR050: 15, AR061: 7, AR089: 4, AR051: 1 S0053: 1	
HNHHP23	675942	7658	75 - 734	17410	Val-24 to Glu-29, Ser-62 to Ser-68, Ala-75 to Ser-81, Lys-138 to Phe-145.	L0740: 2 and S0053: 1.	
HNHFF79	638126	7659	153 - 281	17411		AR051: 21, AR050: 8 S0053: 1	

HNHF30	692811	7660	2 - 178	17412	Asn-37 to Cys-43, Gly-50 to Phe-57.	S0053: 1 and L0748: 1.
HNHF01	916782	7661	186 - 308	17413		L0758: 2 and S0053: 1.
HNHF08	576448	7662	1 - 147	17414	Pro-19 to Gly-32.	AR050: 7, AR054: 6, AR051: 3 S0053: 1
HNHF021	842707	7663	9 - 125	17415	Arg-10 to Thr-20.	S0053: 1
HNHF083	781217	7664	256 - 498	17416	Lys-2 to Thr-8, Ser-12 to Trp-25, Trp-33 to Cys-39.	L0748: 2 and S0053: 1.
HNHF018	666524	7665	54 - 197	17417		S0053: 1, L0438: 1 and L0748: 1.
HNHF020	668909	7666	72 - 275	17418		S0053: 1 and L0740: 1.
HNHF003	535701	7667	68 - 277	17419	Gly-34 to Ser-41.	S0053: 1
	535815	9636	68 - 277	19388	Gly-34 to Ser-41.	
	923484	9637	74 - 283	19389	Gly-34 to Ser-41.	
HNHF086	490390	7668	505 - 278	17420	Glu-1 to Ser-9, Lys-14 to Leu-20, Asp-44 to Gly-57.	S0053: 1
	785285	9638	71 - 364	19390	Glu-1 to Ala-13, Pro-52 to Gly-57, Leu-84 to Gln-90, Pro-92 to Asp-98.	
HNHF072	760706	7669	18 - 164	17421		S0053: 1 and L0589: 1.
HNHF034	706636	7670	248 - 553	17422	Gln-12 to Met-20, Pro-26 to Gly-31, Phe-39 to Asn-44, Gln-50 to Thr-64.	L0439: 2, S0053: 1 and L0751: 1.
HNHF027	506284	7671	114 - 380	17423	Arg-11 to Asn-20.	S0053: 1
HNHF069	757649	7672	244 - 402	17424		S0053: 1 and L0439: 1.
HNHF078	800165	7673	20 - 154	17425		S0053: 1
HNHF020	669763	7674	305 - 472	17426	Ser-1 to Trp-15.	S0053: 1 and L0439: 1.
HNHF090	888553	7675	22 - 168	17427	Arg-25 to Gln-34.	AR054: 16, AR050: 12, AR051: 8 S0053: 1
HNHF037	419752	7676	35 - 205	17428	Pro-46 to Met-51.	L0766: 1 and S0053: 1.

HNHEH28	973296	7677	22 - 198	17429	Arg-5 to His-11, Thr-13 to Cys-22, Cys-50 to Thr-55.	L0617: 1 and S0053: 1.
HNHEG71	760464	7678	23 - 190	17430	Leu-7 to Asp-17, Gly-19 to His-27, Pro-33 to Glu-49.	S0053: 1
HNHEE53	576417	7679	201 - 362	17431	Met-18 to Cys-23.	S0053: 1
HNHEF08	958854	7680	493 - 230	17432	Ser-46 to Ser-51.	S0053: 1
HNHEE03	924619	7681	351 - 485	17433		S0053: 1 and L0759: 1.
HNHED88	576529	7682	3 - 206	17434		AR051: 22, AR054: 15, AR050: 11 S0053: 1
HNHED18	666594	7683	450 - 599	17435	Ser-17 to Asp-23, Ile-32 to Arg-58.	L0749: 2, S0053: 1 and L0748: 1.
HNHED25	973295	7684	109 - 330	17436	Thr-50 to Gly-55.	S0053: 1
HNHEDY14	542062	7685	151 - 396	17437		AR054: 14, AR051: 1, AR050: 1 S0053: 1 and L0759: 1.
HNHDX57	734933	9640	156 - 380	19392		S0053: 1 and L0752: 1.
HNHDX30	692875	7687	302 - 454	17439		S0053: 1 and L0748: 1.
HNHDX94	883870	7688	257 - 568	17440	Lys-8 to Pro-17, Leu-92 to Ala-99.	L0509: 1 and S0053: 1.
HNHDXW16	422903	7689	246 - 1	17441		L0589: 2 and S0053: 1.
	661809	9641	91 - 339	19393	Arg-1 to Ser-17, Arg-35 to Ser-40, Gly-64 to Leu-74.	
HNHDXV95	559341	7690	67 - 288	17442	Ala-19 to Leu-25.	AR054: 15, AR050: 3 S0053: 1
HNHDXV93	860083	9642	58 - 279	19394	Ala-19 to Leu-25.	
HNHDXV16	792467	7691	2 - 349	17443		L0748: 4 and S0053: 1.
	863116	7692	185 - 3	17444	Thr-30 to Thr-51.	AR051: 28, AR050: 23, AR054: 20 S0053: 1
HNHDXT83	974277	7693	55 - 198	17445		S0053: 1

HNHDT33	576483	7694	2 - 166	17446			S0053: 1		
HNHDT32	573332	7695	3 - 122	17447	Ser-12 to Lys-24, Lys-29 to Arg-35.		S0053: 1		
HNHDT19	573355	7696	2 - 130	17448	Ser-20 to Pro-26.		S0053: 1		
HNHDT12	576464	7697	3 - 92	17449			S0053: 1		
HNHDT05	932223	7698	2 - 382	17450	Gly-14 to Arg-26, Thr-43 to Arg-58, Pro-63 to Gly-71, Lys-80 to Gly-95.		S0005: 2, S0053: 1 and L0589: 1.		
HNHDM15	660509	7699	215 - 427	17451	Thr-40 to Ser-46, Pro-48 to Pro-58, Ser-65 to Glu-70.		L0747: 2 and S0053: 1.		
HNHDM40	574312	7700	74 - 319	17452			S0053: 1		
HNHDM03	924895	7701	68 - 334	17453	Gln-1 to Leu-12, Ser-16 to His-21.		S0053: 1		
HNHDM07	953883	7702	92 - 379	17454			S0053: 1 and L0361: 1.		
HNHDM52	520297	7703	241 - 71	17455	Pro-49 to Lys-57.		AR050: 2, AR051: 0 S0053: 1		
HNHDM29	904546	7704	24 - 215	17456	Gly-1 to Gly-15, Gly-18 to His-26, Pro-43 to Gly-62.	17q21	S0053: 1		109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844,
HNHDM89	757760	7705	207 - 416	17457			S0053: 1 and L0756: 1.		
HNHDM84	782897	7706	317 - 105	17458			S0053: 1		
	782898	9643	99 - 290	19395	Val-36 to Gly-43.				

	782939	9644	453 - 265	19396	Thr-5 to Glu-11, Lys-28 to Arg-36.		
HNHCY96	796547	7707	428 - 697	17459	Thr-72 to Pro-77, Pro-82 to Phe-87.	S0053: 1	
HNHCY07	953878	7708	49 - 339	17460	Pro-1 to Val-7, Asp-19 to Tyr-25, Lys-39 to Phe-46.	S0053: 1 and L0780: 1.	
HNHCY06	936061	7709	40 - 150	17461		S0053: 1 and L0759: 1.	
HNHCJ08	959944	7710	154 - 294	17462		S0053: 1 and L0599: 1.	
HNHC094	796745	7711	145 - 267	17463		S0053: 1 and L0600: 1.	
HNHC069	754189	7712	12 - 362	17464		S0053: 1 and L0777: 1.	
HNHC039	705641	7713	55 - 294	17465	Arg-18 to Val-23.	S0053: 1 and L0592: 1.	
HNHC069	757751	7714	196 - 366	17466	Cys-8 to Cys-16.	S0053: 1 and L0748: 1.	
HNHC111	964952	7715	89 - 211	17467	Leu-9 to Trp-14.	S0053: 1	
HNHC132	861673	7716	183 - 593	17468	Lys-17 to Thr-23, His-95 to Thr-101.	AR051: 23, AR050: 14, AR061: 10, AR054: 4, AR089: 3 S0053: 1	
	956105	9645	963 - 553	19397	Lys-17 to Thr-23, His-95 to Thr-101.		
HNHC043	574074	7717	10 - 168	17469	Thr-31 to Gly-37.	S0053: 1	
HNHC032	574080	7718	90 - 161	17470	Ser-6 to Lys-14.	S0053: 1	
HNHC033	702679	7719	488 - 655	17471		L0748: 6 and S0053: 1.	
HNHC027	668255	7720	268 - 465	17472		AR054: 16, AR051: 16, AR050: 3 S0053: 1	
HNHBZ39	860113	7721	114 - 284	17473		AR054: 19, AR050: 18, AR051: 13 S0053: 1	
HNHBX96	796539	7722	61 - 252	17474	Thr-8 to Phe-18, Ser-23 to Asn-34, Ala-37 to Leu-46.	S0053: 1 and L0748: 1.	
HNHBW54	583752	7723	186 - 299	17475		S0053: 1	
	840101	9646	235 - 2	19398	Arg-1 to Ala-9, Phe-18 to Asp-27.		
HNHB002	920662	7724	74 - 280	17476		S0053: 1 and L0589: 1.	

HNHB078	574093	7725	2 - 160	17477		S0053: 1	
HNHBK57	490789	7726	296 - 60	17478		S0053: 1	
	513489	9647	2 - 211	19399			
HNHB148	860125	7727	243 - 533	17479		S0053: 1	
HNHB102	918387	7728	686 - 474	17480		S0053: 1	
	919069	9648	314 - 3	19400	His-34 to Ser-44, Cys-80 to Glu-86, Pro-95 to Gly-101.		
HNHBG42	714044	7729	241 - 351	17481	Arg-21 to Glu-30.	S0053: 1, L0740: 1 and L0777: 1.	
HNHBF78	773747	7730	76 - 300	17482		S0053: 1 and L0589: 1.	
HNHBF47	949027	7731	923 - 501	17483	His-1 to Thr-14.	AR051: 11, AR054: 8, AR050: 7, AR061: 1, AR089: 0	1
HNHBE75	766526	7732	82 - 243	17484	Cys-3 to Leu-20.	S0053: 1	
HNHBD73	764293	7733	259 - 134	17485	His-1 to Tyr-7, Ser-17 to Gly-24.	L0439: 2 and S0053: 1.	
HNHBC77	772452	7734	67 - 273	17486		S0053: 1 and L0750: 1.	
HNHAP69	574295	7735	58 - 270	17487	Asn-2 to Arg-9.	S0053: 1	
HNHAP55	574386	7736	2 - 163	17488	Ala-1 to His-11.	S0053: 1	
HNHAP32	574393	7737	99 - 281	17489		S0053: 1	
HNHAP08	959961	7738	132 - 239	17490		S0053: 1	
HNHAM81	574402	7739	1 - 90	17491	Asn-20 to Glu-30.	S0053: 1	
HNHAM80	574404	7740	56 - 160	17492		S0053: 1	
HNHAM33	571334	7741	3 - 95	17493	Thr-1 to Lys-6, Leu-22 to Leu-30.	L0633: 3 and S0053: 1.	
HNHAK41	890594	7742	2 - 166	17494		AR050: 14, AR051: 12, AR054: 2	
HNHAI41	712605	7743	66 - 233	17495		S0053: 1	
HNHAI07	954088	7744	1 - 168	17496	Arg-1 to Asp-16, Leu-27 to Gly-32.	L0743: 3 and S0053: 1. L0761: 1 and S0053: 1.	
HNHAF61	742116	7745	189 - 686	17497	Pro-5 to Trp-10, Glu-62 to Gly-67, Ala-124 to Asn-129.	AR061: 6, AR089: 3 L0438: 2, L0439: 2, L0752: 2, L0365: 1 and S0053: 1.	

	955094	9649	378 - 1	19401	Thr-56 to Pro-64, Pro-77 to Thr-87, Thr-95 to Glu-100, Asp-112 to Thr-118.	
HNHAE19	527975	7746	429 - 112	17498	Arg-24 to Lys-37, Ser-59 to Pro-70.	L0766: 5, L0788: 1, S0053: 1 and L0747: 1.
HNHAB36	596822	7747	913 - 653	17499	Arg-19 to Arg-26, Gly-44 to Thr-55, Glu-68 to His-75, Trp-82 to Asp-87.	S0053: 1
	946365	9650	199 - 2	19402	Thr-6 to Cys-17,	
	946634	9651	3 - 170	19403	Gly-23 to Gly-28, Cys-1 to Ser-6.	S0053: 1
HNHAB15	973675	7748	420 - 623	17500	Glu-1 to Ser-6,	S0428: 1 and L0600: 1.
HNHPR43	860142	7749	2 - 304	17501	Asp-30 to Lys-35.	S0428: 1
HNGPP74	974046	7750	303 - 557	17502	Pro-16 to Ala-31, Pro-59 to Gly-85, Pro-87 to Pro-96.	AR061: 4, AR089: 1 S0428: 1
HNGPN54	947104	7751	478 - 113	17503	Arg-1 to Lys-6, Ile-14 to Asn-22.	S0428: 1
HNGPM65	972821	7752	64 - 270	17504		AR061: 7, AR089: 3 L0766: 1, S0428: 1 and L0592: 1.
HNGPL75	950134	7753	870 - 559	17505		S0428: 1
HNGPL05	974049	7754	43 - 270	17506		S0428: 1 and L0589: 1.
HNGPI87	860162	7755	229 - 426	17507		S0428: 1
HNGPH83	974045	7756	1 - 147	17508	Tyr-4 to Ile-16.	S0428: 1
HNGOZ40	969158	7757	13 - 330	17509	Gln-5 to Phe-15, Pro-32 to Ala-39, Pro-49 to Trp-67.	S0428: 1 and L0588: 1.
HNGOV68	860169	7758	2 - 343	17510	Gly-21 to Leu-30, Pro-51 to Ser-56, Thr-62 to Ala-67.	L0761: 1 and S0428: 1.
HNGOY32	954991	7759	243 - 590	17511		L0365: 1 and S0428: 1.
HNGOP63	973415	7760	126 - 557	17512	Pro-22 to Leu-30.	S0428: 1

HNGOP40	860182	7761	102 - 326	17513	Ser-7 to Ala-14, Arg-25 to His-31, Pro-48 to Gly-62, Gln-68 to Lys-75.	S0428: 1 and L0589: 1.	
HNGOQ88	860179	7762	95 - 271	17514			
HNGON56	974038	7763	520 - 738	17515	Glu-1 to Leu-11.	S0428: 1	
HNGON24	860183	7764	205 - 468	17516			
HNGOK04	972752	7765	3 - 611	17517	Thr-6 to Ser-13, Leu-52 to Gly-61, Arg-66 to Arg-72, Arg-131 to Pro-136, Arg-145 to Tyr-150, Gly-163 to Ser-168, Ala-186 to Gly-193.	L0369: 1 and S0428: 1. S0428: 1	
HNGOF70	860195	7766	7 - 243	17518			
HNGNY72	860198	7767	167 - 385	17519	Met-20 to Gly-26.	L0766: 2 and S0428: 1.	
HNGNY16	806017	7768	312 - 590	17520	Pro-35 to Trp-43.	L0385: 1 and S0428: 1.	
HNGNY02	918626	7769	42 - 470	17521	Gln-1 to Gly-9, Gly-40 to Asn-53, Arg-67 to Gln-72, His-100 to Trp-107, Arg-135 to Pro-140.	L0385: 1, L0365: 1 and S0428: 1.	
HNGNX66	974035	7770	391 - 618	17522	Gly-1 to Val-30, Lys-37 to Glu-53.	S0428: 1	
HNGNU85	974037	7771	262 - 594	17523	Arg-27 to Ser-32.	S0428: 1	
HNGNS91	973432	7772	245 - 496	17524	Lys-30 to Asp-37.	S0428: 1	
HNGNN81	974124	7773	96 - 287	17525	Leu-3 to Gly-13, Ala-17 to Pro-26, Glu-44 to Lys-49.	S0428: 1	
HNGNN01	915226	7774	282 - 512	17526		S0428: 1 and L0758: 1.	
HNGNU46	860212	7775	135 - 470	17527	Leu-12 to Cys-19, Gln-27 to Asn-35.	L0779: 2, L0663: 1, S0428: 1 and L0747: 1.	
HNGNT78	860216	7776	186 - 380	17528	Pro-38 to Trp-44.	S0428: 1 and L0596: 1.	
HNGND75	974968	7777	169 - 450	17529	Pro-3 to Gln-13, Gly-39 to Cys-44, Thr-57 to Trp-66.	S0428: 1	

HNGND01	915294	7778				Thr-81 to Ser-87.			S0428: 1 and L0749: 1.	
HNGNA49	974907	7779	446 - 580	17530					S0428: 1	
HNGM191	974056	7780	371 - 592	17531					S0428: 1	
			282 - 575	17532		Val-23 to Gly-29, Ser-48 to Cys-58.				
HNGMW65	950173	7781	295 - 26	17533		Ile-26 to Thr-37.			AR089: 119, AR061: 16 S0428: 1	
HNGMT40	930430	7782	2 - 151	17534					L0662: 1, S0428: 1 and L0759: 1.	
HNGMM11	966099	7783	40 - 375	17535		Pro-1 to Leu-13, Pro-19 to Pro-27.			S0428: 1 and L0777: 1.	
HNGML12	934389	7784	3 - 179	17536					L0761: 1, L0766: 1, S0428: 1 and L0756: 1.	
HNGMF02	955660	7785	394 - 642	17537					L0809: 2, L0783: 1, L0791: 1, S0428: 1, L0740: 1 and L0752: 1.	
HNGME04	927020	7786	200 - 592	17538					S0428: 1, L0748: 1 and L0749: 1.	
HNGMD92	790887	7787	71 - 247	17539		Arg-39 to Asp-56.			S0428: 1 and L0361: 1.	
HNGMD48	974358	7788	215 - 400	17540					S0428: 1	
HNGMCO1	915310	7789	525 - 830	17541		Gln-50 to Ser-61.			L0747: 3 and S0428: 1.	
HNGLY12	968919	7790	260 - 439	17542		Thr-8 to Leu-13, Glu-22 to Asn-32.			S0428: 1 and L0758: 1.	
HNGLY08	948825	7791	81 - 425	17543		Asn-80 to Ser-86, Phe-98 to Glu-105.			AR051: 17, AR050: 9, AR054: 7 S0428: 1	
HNGLS90	787446	7792	253 - 438	17544		Ala-26 to Ala-31, Ser-57 to Arg-62.			S0428: 1, L0748: 1 and L0749: 1.	
HNGLR54	972812	7793	314 - 508	17545		Pro-20 to Glu-25, Glu-55 to Ala-60.			S0428: 1	
HNGLO21	974067	7794	165 - 479	17546		Pro-22 to Thr-28, Arg-35 to Pro-44.			S0428: 1	
HNGLL07	952236	7795	3 - 146	17547					S0428: 1 and L0731: 1.	
HNGLK36	974584	7796	402 - 557	17548		Gln-7 to Asp-21, Glu-27 to Gly-37.			S0428: 1	
HNGKY10	963459	7797	58 - 156	17549					L0659: 1 and S0428: 1.	

HNGK834	974368	7798	189 - 356	17550	Glu-36 to Pro-42.	S0428: 1	
HNGK080	860306	7799	90 - 377	17551	Val-20 to Glu-27.	S0428: 1 and L0589: 1.	
HNGK032	860307	7800	118 - 414	17552	Pro-4 to Ala-9, Val-18 to Trp-30, His-48 to Leu-59, Phe-91 to Asn-99.	S0428: 1, L0748: 1 and L0749: 1.	
HNGKM74	942758	7801	2 - 988	17553	Phe-148 to Lys-155, Arg-162 to Glu-168, Arg-205 to Thr-213, Pro-235 to Leu-241.	AR051: 17, AR050: 17, AR061: 7, AR089: 3, AR054: 3 L0800: 1 and S0428: 1.	
HNGKL24	974360	7802	319 - 540	17554	Gly-23 to Pro-28,	S0428: 1	
HNGKJ02	918622	7803	375 - 647	17555	Pro-31 to Asp-36, Ala-38 to Trp-59, His-71 to Glu-76, Lys-79 to Glu-86.	S0428: 1 and L0731: 1.	
HNGKH07	952210	7804	104 - 247	17556	Pro-2 to Thr-9.	L0655: 1 and S0428: 1.	
HNGKG03	922036	7805	120 - 323	17557		L0518: 1 and S0428: 1.	
HNGKD49	974364	7806	295 - 444	17558		S0428: 1	
HNGKC69	834922	7807	137 - 418	17559	Lys-29 to Thr-40, Arg-58 to Leu-65, Gln-67 to Arg-80, Ser-85 to Asp-92.	AR051: 14, AR054: 4, AR050: 1 S0428: 1	
HNGKC21	974581	7808	102 - 233	17560		S0428: 1	
HNGKC06	934309	7809	3 - 431	17561	Ser-21 to Lys-29, Gln-31 to His-37.	S0428: 1 and L0758: 1.	
HNGKA11	966117	7810	118 - 300	17562		L0787: 1, S0428: 1 and L0592: 1.	
HNGJY82	778921	7811	305 - 439	17563	Gly-14 to Arg-21, Gln-31 to Glu-37.	S0052: 1 and L0592: 1.	
HNGJR05	860357	7812	212 - 460	17564	Ser-16 to Asp-27, Arg-37 to Gly-44.	S0052: 1 and L0589: 1.	
HNGJO96	796414	7813	37 - 282	17565	Thr-24 to Thr-29, Thr-42 to Lys-47, Ala-52 to Asn-64.	S0052: 1	
HNGJO36	708121	7814	45 - 242	17566	Pro-46 to Gly-53.	S0052: 1	

HNGJ008	959511	7815	26 - 103	17567			S0052: 1
HNGJL47	720363	7816	3 - 404	17568	Arg-31 to Ser-37, Pro-39 to Pro-45.	L0771: 8, L0591: 2, L0788: 1 and S0052: 1.	
HNGJK64	746615	7817	22 - 147	17569	Ser-19 to Leu-26, Leu-30 to Gln-35.	S0052: 1	
HNGJK63	839947	7818	2 - 181	17570		S0052: 1 and L0758: 1.	
HNGJK40	711219	7819	138 - 380	17571	Thr-26 to Gly-31.	S0052: 1	
HNGJL40	711211	7820	2 - 385	17572	Ala-6 to Gly-11, Phe-21 to Leu-28, Cys-43 to Ile-53.	S0052: 1	
HNGJL04	615285	7821	3 - 164	17573	Gly-34 to Phe-41.	S0052: 1	
HNGJG75	942946	7822	90 - 662	17574	His-1 to Phe-14, Gln-18 to Arg-24, Ser-44 to His-49, Phe-121 to Asp-131, Ser-149 to Thr-174.	AR061: 4, AR089: 1 S0052: 1	
	951158	9652	469 - 251	19404			
HNGJG35	422897	7823	393 - 253	17575		S0052: 1	
HNGJE38	495689	7824	630 - 109	17576		S0052: 1 and L0758: 1.	
	860403	9653	95 - 379	19405	Pro-39 to Cys-52.		
HNGJE23	600366	7825	634 - 467	17577	Tyr-17 to Lys-22, Gly-46 to Thr-54.	S0052: 1	
	860413	9654	463 - 296	19406	Lys-6 to Leu-12.		
HNGJE08	973790	7826	392 - 547	17578	Pro-40 to Gln-50.	S0052: 1	
HNGJE01	973797	7827	392 - 529	17579		S0052: 1	
HNGJC68	888447	7828	103 - 348	17580		AR051: 86, AR050: 64, AR054: 54 S0052: 1	
HNGJC29	695660	7829	96 - 425	17581	Trp-1 to Arg-8, Gln-14 to Thr-21, Ser-39 to Gly-51, Arg-65 to Gln-72, Ser-80 to Gln-85, His-90 to Gly-96.	S0052: 1 and L0747: 1.	
HNGJB49	723004	7830	3 - 302	17582	His-7 to Gly-22, His-62 to Asn-71.	L0748: 5, S0052: 1 and L0749: 1.	

HNGJA75	888461	7831	95 - 256	17583	Thr-17 to Leu-26, Gly-47 to Gly-53.	AR051: 25, AR050: 16, AR054: 1 S0052: 1		
HNGIX71	760398	7832	3 - 293	17584	His-30 to Gln-37.	L0748: 2 and S0052: 1.		
HNGIW45	717698	7833	1 - 198	17585	Ser-46 to Lys-56.	S0052: 1		
HNGIS92	792748	7834	1 - 540	17586		S0052: 1 and L0439: 1.		
HNGIS70	757216	7835	373 - 621	17587	Ser-66 to Ser-73.	S0052: 1 and L0740: 1.		
HNGIS02	920221	7836	327 - 542	17588	Ser-15 to Lys-24.	L0769: 1 and S0052: 1.		
HNGIR10	964715	7837	317 - 496	17589	Pro-7 to Phe-12.	L0769: 3 and S0052: 1.		
HNGIQ78	772866	7838	112 - 324	17590	Asp-6 to Ser-20, Arg-46 to Phe-53, Pro-60 to Leu-67.	S0052: 1		
HNGIQ71	773431	9655	586 - 365	19407				
	495771	7839	487 - 176	17591	Ala-1 to Cys-7, Gln-21 to Gly-40, Pro-49 to Gly-54, Ser-72 to Trp-91.	S0052: 1		
HNGIP47	860306	9656	308 - 658	19408				
	720374	7840	247 - 450	17592	His-15 to Met-25.	S0052: 1 and L0589: 1.		
	860515	7841	210 - 476	17593		S0052: 1		
	487439	7842	231 - 401	17594	Ala-15 to Arg-22.	S0052: 1		
HNGIO52	927636	9657	396 - 280	19409				
	727196	7843	207 - 422	17595	Pro-15 to Arg-22.	S0052: 1 and L0756: 1.		
HNGIL94	793171	7844	123 - 326	17596		S0052: 1		
HNGIL84	781970	7845	50 - 340	17597		L0747: 2 and S0052: 1.		
HNGIL82	812699	7846	174 - 368	17598	Ile-3 to Trp-14, Glu-54 to Asn-65.	S0052: 1		
HNGIL51	725003	7847	1 - 249	17599	Gly-1 to Gln-8, Thr-37 to Arg-47, Pro-57 to Arg-62, Pro-78 to Thr-83.	S0052: 1	2p11.2	178640, 216900
HNGIL22	860525	7848	76 - 306	17600	Ala-1 to Thr-6.	L0527: 1 and S0052: 1.		
HNGIL51	868068	7849	178 - 348	17601	Thr-9 to Cys-14, Lys-38 to Arg-45.	L0752: 2 and S0052: 1.		
HNGHY44	973977	7850	245 - 424	17602	Asp-25 to Gly-32.	S0052: 1		

HNGH094	793271	7851	1 - 219	17603	Asn-1 to His-10, Pro-53 to Ala-72.	S0052: 1	
HNGHM61	576221	7852	39 - 236	17604	Pro-4 to His-18, Pro-28 to Arg-39, Gln-53 to Gly-58.	S0052: 1	
HNGHL46	860541	7853	291 - 476	17605		S0052: 1	
HNGHJ01	916757	7854	1 - 204	17606	Gln-1 to Asp-9, Asp-19 to Gly-25, His-58 to Ala-65.	S0052: 1 and L0758: 1.	
HNGHG39	860554	7855	3 - 248	17607	His-1 to Met-8.	S0052: 1 and L0366: 1.	
HNGHD68	576315	7856	246 - 1	17608		S0052: 1	
HNGGV02	920377	7857	212 - 430	17609		S0052: 1	
HNGGT08	959649	7858	44 - 193	17610		S0052: 1 and L0748: 1.	
HNGGP91	576251	7859	1 - 360	17611		L0743: 2 and S0052: 1.	
HNGGP55	578450	7860	91 - 186	17612		S0052: 1	
HNGGL74	765644	7861	828 - 487	17613	Tyr-21 to Tyr-26, His-36 to Lys-44, Leu-70 to Gly-76.	AR050: 136, AR054: 117, AR051: 105 S0052: 1	
HNGGF86	860568	7862	247 - 426	17614	Thr-1 to His-11.	S0052: 1	
HNGGB58	738213	7863	16 - 156	17615		S0052: 1 and L0754: 1.	
HNGGB28	703315	7864	2 - 199	17616	Ala-1 to Ala-10, Pro-12 to Ser-19, Asp-31 to Gly-44, Pro-49 to Arg-66.	S0052: 1	
HNGFX89	506492	7865	202 - 468	17617	Asn-13 to Ala-19.	AR050: 19, AR051: 15, AR054: 8 S0052: 1	
	578679	9658	34 - 144	19410			
	578680	9659	529 - 413	19411			
HNGFX75	608695	7866	394 - 630	17618			
HNGFU33	702584	7867	472 - 663	17619	Gly-2 to Phe-8, Pro-17 to Asn-22, Met-56 to Gly-62.	S0052: 1 L0747: 3, L0803: 2, L0659: 2, L0666: 2, L0662: 1, L0546: 1, S0052: 1, L0750: 1, L0779: 1, L0752: 1 and L0758: 1.	
HNGFT02	920480	7868	212 - 319	17620		S0052: 1 and L0747: 1.	

HNGFR06	935821	7869	2 - 421	17621	Leu-41 to Gln-52.	S0052: 1, L0439: 1 and L0754: 1.	
HNGFP92	842276	7870	439 - 621	17622	Gly-1 to Asp-7.	S0052: 1	
	889744	9660	140 - 442	19412	Ala-17 to Gly-22.		
					Thr-3 to Ala-33, Ala-44 to Cys-49, Phe-64 to Trp-71, Ala-84 to Arg-89, Ala-94 to Ser-101.		
HNGFN70	872950	7871	3 - 191	17623	Ser-10 to Asn-17, Gly-32 to Lys-44.	AR051: 41, AR050: 40, AR054: 33 S0052: 1	
HNGFM17	664280	7872	345 - 635	17624	Leu-11 to Gln-19, Gly-27 to Ala-36, Ser-45 to Ser-59.	S0052: 1 and L0748: 1.	
HNGFK34	703419	7873	1 - 309	17625	Thr-2 to Trp-9, Val-33 to Leu-38, Gly-43 to Cys-51.	L0518: 1 and S0052: 1.	
HNGFI11	967304	7874	1 - 285	17626	Gln-63 to Ser-68, Asp-75 to Pro-82.	L0517: 1 and S0052: 1.	
HNGFH90	789066	7875	45 - 317	17627	Gln-11 to Gln-16, Ser-24 to Arg-29, Ser-39 to Gly-45.	S0052: 1 and L0594: 1.	
HNGFH58	738240	7876	1 - 201	17628		L0748: 2 and S0052: 1.	
HNGFH30	823363	7877	2582 - 2280	17629	Lys-30 to Met-35, Pro-49 to Gly-56, His-72 to Ser-77, Ala-82 to Gly-92.	AR050: 17, AR054: 1 S0052: 1	
HNGFG10	824134	9661	227 - 649	19413	Lys-30 to Met-35, Pro-49 to Gly-56.		
	854048	9662	2 - 79	19414	Lys-1 to Leu-12.		
	968059	7878	800 - 1042	17630	Ser-64 to His-69.	L0747: 3, L0589: 2 and S0052: 1.	
HNGFF50	941480	7879	1 - 342	17631	Ala-3 to Thr-11, Ala-33 to His-43, Gly-67 to Leu-74.	S0052: 1	

HNGFE75	486855	7880	290 - 502	17632	Pro-96 to His-102, Glu-104 to Thr-114.			
	490615	9663	493 - 89	19415	Glu-39 to Gly-46, Ser-56 to Arg-64.		S0052: 1	
	871493	7881	108 - 470	17633	Leu-10 to Glu-17.		S0052: 1 and L0596: 1.	
HNGFE58					Pro-17 to Trp-22, Ile-26 to Gly-31, Ala-35 to Gly-46, Asp-49 to Glu-88, Met-105 to Pro-113.			
	927579	7882	101 - 250	17634	Trp-17 to Met-23, Gly-25 to Asn-40, Phe-43 to Arg-48.		L0775: 1 and S0052: 1.	
	666626	7883	102 - 395	17635	Ser-6 to Ser-13, Leu-20 to Pro-27.		S0052: 1, L0779: 1 and L0731: 1.	
HNGEX55	888324	7884	1 - 375	17636	Gly-1 to Trp-9, Gly-43 to Asp-57, Gly-64 to Trp-81.		AR050: 23, AR051: 19, AR054: 13 S0052: 1	
	868073	7885	248 - 460	17637	Glu-1 to Asp-9.		L2245: 1 and S0052: 1.	
	860615	7886	129 - 452	17638	Ala-1 to Ser-6, Pro-24 to His-36, Val-80 to Asn-88, Gly-94 to Glu-100.		L0773: 1 and S0052: 1.	
HNGEW38	964163	9664	569 - 159	19416	Pro-19 to Glu-25.			
	573234	7887	298 - 690	17639	Trp-7 to Pro-12, Leu-38 to Lys-44, Thr-69 to Arg-76, Leu-93 to Ser-99, His-115 to Ser-124.		S0052: 1 and L0742: 1.	123620, 188826, 600850, 601669
					Glu-6 to Lys-22, Ser-42 to Ser-55, Ser-58 to Ala-65.		L0754: 2 and S0052: 1.	
HNGEU20	669811	7888	320 - 535	17640	His-1 to Ile-16.		L0754: 2 and S0052: 1.	
	789373	7889	3 - 377	17641	Glu-1 to Ala-7.		S0052: 1	
	578910	7890	3 - 263	17642	Trp-15 to Thr-21.			
HNGER73	578909	7891	10 - 324	17643	Gly-11 to Pro-17,		S0052: 1	

HNGER62	578922	7892				Trp-31 to Trp-38, Ser-45 to Met-51.		
HNGER61	578907	7893	107 - 307	17644		Gln-6 to Arg-18.	S0052: 1	
			116 - 325	17645		Ser-16 to Thr-24, Ala-37 to Ser-49.	S0052: 1	
HNGER50	576479	7894	60 - 230	17646		Lys-8 to Cys-14.	S0052: 1	
HNGER38	578908	7895	1 - 138	17647		Gly-1 to Cys-7, Asp-23 to Gly-31, Cys-34 to Asn-40.	S0052: 1	
HNGER26	860623	7896	127 - 384	17648			S0052: 1	
HNGE079	951489	7897	200 - 640	17649		Gln-41 to Asp-48, Ser-67 to Leu-72, Thr-79 to Ser-84, Ile-96 to Ser-103, Arg-120 to Ser-127.	AR061: 46, AR089: 19, AR051: 12, AR054: 10, AR050: 9 S0052: 1 and L0758: 1.	
HNGEN04	586457	7898	30 - 302	17650		Arg-1 to Gly-13, His-19 to Gly-24.	AR050: 63, AR051: 54, AR054: 40 S0052: 1	
HNGEK57	734923	7899	92 - 307	17651			S0052: 1 and L0592: 1.	
HNGEK16	578914	7900	2 - 172	17652		Ala-1 to Asp-9.	S0052: 1	
HNGE144	800199	7901	13 - 345	17653		Pro-10 to Phe-15, Ala-59 to Pro-66, Pro-69 to Gln-85.	S0052: 1	
HNGEI11	967314	7902	121 - 276	17654			S0052: 1 and L0589: 1.	
HNGEG07	953658	7903	274 - 411	17655		Lys-26 to His-46.	S0052: 1 and L0589: 1.	
HNGEF81	570236	7904	2 - 220	17656		Glu-3 to Asp-13, Pro-18 to His-39.	S0052: 1	
	590251	9665	483 - 731	19417		Gly-10 to Asn-20, Glu-61 to Gly-79.		
	860649	9666	246 - 560	19418		Asp-10 to Gly-16.		
HNGEI10	968043	7905	72 - 251	17657				
HNGED92	654085	7906	257 - 3	17658		Ser-1 to Ile-7, Pro-32 to His-38, Pro-60 to Ala-69, Arg-71 to Gly-79.	S0052: 1 and L0589: 1. S0052: 1	
	846048	9667	56 - 265	19419				

HNGED46	838885	7907	259 - 441	17659	Glu-29 to Leu-34, Gly-43 to Lys-50.	S0032: 1	
HNGEB84	783132	7908	83 - 235	17660	Arg-31 to Ala-37.	S0052: 1 and L0748: 1.	
HNGEA17	561293	7909	1 - 261	17661	Leu-8 to Arg-15, Gly-72 to Leu-81.	S0032: 1	
HNGDZ93	888677	7910	1 - 132	17662	Ile-20 to Asn-25, Pro-33 to Ser-43.	AR051: 21, AR054: 7, AR050: 1	
HNGDW53	973311	7911	153 - 380	17663		S0032: 1	
HNGDW19	502499	7912	233 - 448	17664		S0032: 1	
	511193	9668	602 - 261	19420		S0032: 1	
					His-10 to Lys-19, Arg-21 to Cys-29, Pro-31 to Ser-41, Gln-47 to Trp-54, Ala-57 to Gly-69, Gln-84 to Phe-102.		
HNGDV38	572912	7913	50 - 136	17665		S0032: 1	
HNGDV26	572906	7914	70 - 249	17666	Pro-24 to Arg-38.	S0032: 1	
HNGDV15	572902	7915	3 - 275	17667	Ser-1 to Asn-16, Asn-27 to Gln-41.	S0052: 1	
HNGDV02	920504	7916	3 - 167	17668	Ser-24 to Ser-35.	S0032: 1	
HNGDV01	916989	7917	73 - 204	17669	Gln-16 to His-27, Ala-32 to Cys-37.	S0032: 1	
HNGDS21	396889	7918	538 - 404	17670	Ile-40 to Arg-45.	S0032: 1	
	670757	9669	151 - 291	19421	Pro-32 to Trp-37.		
HNGDR65	572896	7919	116 - 223	17671	Asp-1 to Ser-7.	S0032: 1	
HNGDQ68	753164	7920	4 - 318	17672	Gly-1 to Gly-8, Thr-16 to Gly-25, Gly-65 to Glu-80.	S0032: 1 and L0592: 1.	
HNGDQ56	733550	7921	7 - 270	17673	Phe-64 to Arg-71, Gln-77 to His-83.	S0052: 1 and L0361: 1.	
HNGDO68	753580	7922	3 - 107	17674		S0052: 1 and L0748: 1.	
HNGDO54	521883	7923	225 - 368	17675	Lys-9 to Leu-14.	S0052: 1	
HNGDO53	574450	7924	68 - 217	17676		S0052: 1	
HNGDO52	868772	7925	1 - 192	17677	Gly-9 to Gly-15, Pro-33 to Pro-40.	S0052: 1	

HNGDO40	574449	7926	166 - 2	17678	Pro-1 to Lys-11.	S0052: 1
HNGDO30	574446	7927	45 - 131	17679	Glu-24 to Ser-29.	S0052: 1
HNGDO29	526804	7928	186 - 347	17680	Gln-11 to Gln-17.	S0052: 1
HNGDO18	526514	7929	122 - 238	17681	Arg-15 to Glu-24.	S0052: 1
HNGDO06	936059	7930	136 - 261	17682	Ser-15 to Phe-22, Ala-35 to Arg-41.	S0052: 1
HNGDO05	932400	7931	51 - 125	17683		S0052: 1
HNGDO04	523469	7932	219 - 320	17684	Leu-13 to Arg-19.	S0052: 1
HNGDM11	967512	7933	391 - 534	17685		L0766: 1, S0052: 1 and L0754: 1.
HNGDL51	860671	7934	1 - 258	17686	Asn-6 to Ser-15, Pro-29 to Ser-34, Ser-49 to Arg-54.	AR054: 26, AR050: 23, AR051: 22 S0052: 1
HNGDF94	796744	7935	24 - 128	17687		S0052: 1
HNGDF70	506694	7936	87 - 206	17688		S0052: 1
HNGDF58	506693	7937	19 - 315	17689	Glu-36 to Ala-46, Phe-50 to Cys-56.	L0748: 2 and S0052: 1.
HNGDF38	574349	7938	112 - 240	17690	Asp-1 to Asn-8.	S0052: 1
HNGDF10	968240	7939	135 - 350	17691		S0052: 1
HNGDE79	781680	7940	269 - 403	17692	Glu-35 to Leu-41.	S0052: 1 and L0748: 1.
HNGDE74	765812	7941	1 - 120	17693		L0748: 2 and S0052: 1.
HNGDD27	860680	7942	91 - 252	17694	Met-26 to Ser-32.	S0052: 1
HNGDD03	924933	7943	59 - 202	17695	Arg-6 to Asn-12.	S0052: 1
HNGDD02	920675	7944	70 - 186	17696		S0052: 1
HNGDB78	772804	7945	1 - 195	17697		S0052: 1
HNGDB61	742043	7946	177 - 452	17698	Asn-1 to Lys-12.	S0052: 1 and L0589: 1.
HNGDB59	688019	7947	33 - 143	17699		S0052: 1
HNGDB34	574359	7948	12 - 191	17700		S0052: 1
HNGDB40	574346	7949	3 - 110	17701	Lys-6 to Arg-12.	S0052: 1
HNGDB16	574352	7950	2 - 100	17702	Lys-20 to Gly-25, Arg-27 to Thr-33.	S0052: 1
HNGDB04	576460	7951	2 - 115	17703	Thr-4 to Ala-11.	S0052: 1
HNGDA08	959964	7952	180 - 455	17704	Ser-1 to Gly-6, Arg-11 to Trp-20.	L0770: 1 and S0052: 1.
HNGCZ34	730895	7953	62 - 292	17705		S0052: 1 and L0746: 1.

HNGCY60	827144	7954	1 - 447	17706	Lys-1 to Ser-8.	S0052: 1 and L0747: 1.
HNGCY10	968247	7955	121 - 246	17707	Ala-30 to Ser-40.	L0766: 1 and S0052: 1.
HNGCQ38	544484	7956	302 - 87	17708	Arg-33 to Phe-38.	S0052: 1
HNGCP14	860692	9670	35 - 226	19422		
	417271	7957	1 - 258	17709		S0052: 1, L0748: 1 and L0731: 1.
HNGCO71	663340	7958	271 - 2	17710	Lys-6 to Gly-12, Pro-40 to Asn-47.	S0052: 1
	889333	9671	746 - 510	19423		
HNGCO15	889334	9672	3 - 185	19424		
	889335	9673	2 - 145	19425		
	494338	7959	200 - 3	17711	Arg-11 to Leu-17.	S0052: 1
	519229	9674	1 - 132	19426	Gly-10 to Phe-19.	
	825388	9675	1 - 255	19427		
HNGCG39	704547	7960	219 - 410	17712		L0743: 2 and S0052: 1.
HNGCE81	961700	7961	803 - 1195	17713	Ser-1 to Cys-10, Gly-21 to Asp-26.	S0052: 1
	971688	9676	576 - 184	19428	Ser-1 to Cys-10, Gly-21 to Asp-26.	
	971689	9677	143 - 331	19429	Arg-1 to Trp-31, Pro-33 to Arg-50, Leu-52 to Arg-60.	
	971690	9678	261 - 563	19430	Thr-27 to Ala-34, Arg-36 to Arg-44, Pro-89 to Ser-100.	
	860699	7962	536 - 745	17714	Gly-8 to Glu-18.	AR051: 24, AR054: 9, AR050: 3
HNGCE40						S0052: 1
HNGCC02	638114	7963	192 - 419	17715	Pro-39 to Ser-47.	S0052: 1
	917319	9679	186 - 413	19431		
HNGBW07	953894	7964	32 - 277	17716	Ala-30 to Lys-35.	S0052: 1 and L0749: 1.
HNGBS77	494334	7965	263 - 96	17717	Glu-43 to Tyr-51.	S0052: 1
	860721	9680	769 - 975	19432	Asn-1 to Lys-6.	
HNGBP42	574401	7966	76 - 291	17718	Thr-20 to Gly-27.	AR051: 11, AR054: 8, AR050: 1

HNGBO01	921413	7967	1 - 144	17719		S0052: 1	
HNGBN12	920949	7968	88 - 333	17720	Ser-70 to Trp-77.	S0052: 1 and L0759: 1.	
HNGBI40	880778	7969	72 - 356	17721		L0800: 1, S0052: 1 and L0758: 1.	
HNGBI75	678767	7970	331 - 507	17722	Pro-15 to Leu-22.	S0052: 1 and L0361: 1.	
HNGAZ70	757413	7971	138 - 359	17723	Pro-69 to Ser-74.	S0052: 1 and L0745: 1.	
HNGAZ56	733631	7972	186 - 416	17724	Asn-8 to Lys-14, Arg-42 to Arg-48, Ile-50 to Gly-55.	S0052: 1 and L0754: 1. L0747: 2 and S0052: 1.	
HNGAZ08	959977	7973	242 - 436	17725		L0766: 1, S0052: 1 and L0779: 1.	
HNGAX93	792525	7974	198 - 1	17726		S0052: 1 and L0749: 1.	
HNGAW50	723632	7975	3 - 107	17727		L0748: 2, S0052: 1 and L0749: 1.	
HNGAV20	669901	7976	1 - 186	17728		L0748: 4, L0659: 1 and S0052: 1.	
HNGAR02	920736	7977	105 - 332	17729	Arg-25 to Glu-41.	L0375: 1, L0365: 1 and S0052: 1.	
HNGAQ75	766512	7978	3 - 149	17730	Arg-6 to Leu-13.	S0052: 1.	
HNGAQ73	574649	7979	1 - 150	17731		S0052: 1.	
HNGAQ49	574652	7980	25 - 171	17732		S0052: 1.	
HNGAQ38	574658	7981	3 - 125	17733	Pro-10 to Thr-19.	S0052: 1.	
HNGAQ37	575492	7982	3 - 149	17734	Val-22 to Ser-34.	S0052: 1.	
HNGAQ14	574660	7983	27 - 95	17735	Pro-1 to Phe-8.	S0052: 1.	
HNGAQ02	920756	7984	5 - 115	17736	Glu-10 to Glu-18, His-20 to Asn-27.	S0052: 1.	
HNGAQ01	921434	7985	3 - 161	17737	Pro-16 to Gly-25.	S0052: 1.	
HNGAP69	513808	7986	406 - 666	17738		S0052: 1.	
HNGAM31	432620	7987	287 - 39	17739	Thr-46 to Ser-54.	S0052: 1.	
HNGAJ78	773425	7988	281 - 637	17740	Pro-7 to Ser-14.	AR054: 44, AR050: 36, AR051: 5 S0052: 1.	

HNGAD20	888315 890591	9683 7989	1 - 219 3 - 158	19435 17741		AR051: 23, AR054: 12, AR050: 3 S0052: 1	
HNFIJ67	751605	7990	75 - 260	17742	Glu-48 to Ala-54.	H0271: 1 and L0599: 1.	
HNFIJ08	959428	7991	326 - 520	17743	Asn-7 to Leu-14, Lys-25 to Arg-30.	H0271: 1, L0748: 1 and L0758: 1.	
HNFIY76	767681	7992	143 - 316	17744		H0416: 1 and L0749: 1.	
HNFIW53	467056	7993	172 - 363	17745	Ala-24 to Lys-29, Gly-37 to Arg-52.	H0416: 1 and L0745: 1.	
HNFIW14	658129	7994	2 - 265	17746		H0416: 1 and L0591: 1.	17
HNFIIT17	429602	7995	314 - 550	17747	Gln-1 to Gly-11, Gln-22 to Ser-29.	H0416: 1	
	460818	9684	248 - 24	19436	Thr-1 to Thr-12.		
HNFIN07	953330	7996	257 - 526	17748	Asp-1 to Thr-10.	H0416: 1 and L0748: 1.	
HNFIID11	966347	7997	162 - 434	17749	Pro-8 to Gly-13.	H0416: 1	
HNFIAS9	739358	7998	283 - 450	17750	His-8 to Ser-16, Asp-50 to Gly-55.	H0416: 1 and L0748: 1.	
HNFIY59	951005	7999	948 - 769	17751		H0271: 1	
HNFIHX38	735299	8000	320 - 673	17752	Glu-49 to Glu-58, His-70 to Gly-75.	H0271: 1 and L0748: 1.	
HNFIHV96	716913	8001	3 - 269	17753	Pro-9 to Thr-20, Gln-55 to Trp-65, Gln-70 to Ala-85.	L0766: 2, L0439: 2, H0271: 1 and L0756: 1.	
HNFIHU61	741901	8002	123 - 293	17754		H0271: 1	
HNFIHR36	732297	8003	230 - 57	17755		H0271: 1	
HNFIHA09	968091	9685	439 - 600	19437			
	961165	8004	188 - 463	17756	Lys-1 to Glu-8, Gln-20 to Ala-27.	H0271: 1 and L0592: 1.	
HNFIHS84	783199	8005	1 - 93	17757	Pro-26 to Arg-31.	L0745: 2, L0746: 2, H0271: 1 and L0748: 1.	
HNFIJ65	574598	8006	3 - 95	17758	His-1 to Cys-12.	H0271: 1	
HNFIJ42	526844	8007	2 - 118	17759		H0271: 1	
HNFIJ17	574597	8008	80 - 184	17760	Asn-1 to Glu-13.	H0271: 1	
HNFIHG36	574601	8009	22 - 150	17761		H0271: 1	

HNFGH32	574605	8010	127 - 240	17762				H0271: 1
HNFGG80	574602	8011	1 - 72	17763	Thr-8 to Arg-14.			H0271: 1
HNFGG18	574608	8012	37 - 144	17764				H0271: 1 and L0756: 1.
HNFGG06	936086	8013	2 - 295	17765				H0271: 1
HNFGF88	522077	8014	126 - 257	17766				H0271: 1
HNFGF66	860896	8015	88 - 372	17767				H0271: 1 and L0758: 1.
HNFGF52	522293	8016	61 - 360	17768				H0271: 1
HNFGF37	574609	8017	41 - 223	17769	Leu-50 to Val-55.		22q	H0271: 1
HNFGG80	571306	8018	75 - 245	17770	Lys-1 to Asp-6.			H0271: 1
HNFGG41	504165	8019	2 - 142	17771	Gly-30 to Lys-36.			H0271: 1
HNFGB81	778250	8020	297 - 497	17772	Cys-37 to Asp-42.			L0599: 2 and H0271: 1.
HNFGA92	790617	8021	222 - 419	17773				H0271: 1 and L0750: 1.
HNFGA85	521880	8022	51 - 365	17774				H0271: 1
HNFGA57	571305	8023	3 - 113	17775				H0271: 1
HNFFU64	578096	8024	172 - 282	17776				H0271: 1, UNKWN: 1 and L0600: 1.
HNFFR38	455273	8025	704 - 339	17777	Gln-30 to Lys-35.			H0271: 1
	860903	9686	15 - 284	19438	Leu-54 to His-60.			
HNFFQ29	860905	8026	114 - 404	17778	Ser-76 to Pro-86.			H0271: 1 and L0774: 1.
HNFFO20	836239	8027	195 - 350	17779	Ser-14 to Leu-21, His-33 to Gln-40.			H0271: 1 and L0746: 1.
HNFFL57	786899	8028	208 - 423	17780	Leu-15 to Gly-20.			H0271: 1 and L0754: 1.
HNFFR05	932432	8029	37 - 132	17781				L0471: 1 and H0271: 1.
HNFFC75	767453	8030	3 - 158	17782				H0271: 1
HNFEY24	677114	8031	65 - 286	17783				H0271: 1
HNFE506	936099	8032	198 - 332	17784				H0271: 1 and L0748: 1.
HNFEQ28	685514	8033	157 - 396	17785				H0271: 1 and L0747: 1.
HNFEI84	783211	8034	249 - 392	17786				H0271: 1 and L0748: 1.
HNFCV02	861004	8035	73 - 279	17787	Pro-36 to Gly-45, Ser-64 to Thr-69.			AR051: 40, AR054: 38, AR050: 29
HNFCO90	529966	8036	31 - 168	17788				H0271: 1
HNFCO85	529967	8037	2 - 151	17789				H0271: 1
HNFCO32	518637	8038	1 - 216	17790				H0271: 1

HNFCO41	529970	8039	2 - 145	17791			H0271: 1		
HNFCO37	507312	8040	634 - 804	17792			L0748: 4, L0749: 2 and H0271: 1		
HNFCO32	529971	8041	3 - 206	17793			H0271: 1		
HNFCO22	529973	8042	35 - 160	17794			H0271: 1		
HNFC125	556464	8043	116 - 232	17795			AR051: 2, AR054: 1, AR050: 1		
HNFBY08	960222	8044	1 - 177	17796			L0748: 2 and H0271: 1		
HNFBT45	574972	8045	154 - 375	17797			AR051: 24, AR054: 9, AR050: 2		
							H0271: 1		
HNFBQ02	921029	8046	29 - 271	17798			H0271: 1 and L0745: 1		
HNFAF78	601639	8047	567 - 313	17799			H0271: 1		
	679579	9687	202 - 2	19439					
	892100	9688	276 - 845	19440					
HNEDU66	861030	8048	116 - 337	17800			H0179: 1 and L0776: 1		
HNEDR34	730953	8049	229 - 405	17801			H0179: 1 and L0777: 1		
HNEDP86	785736	8050	170 - 394	17802			H0179: 1 and L0766: 1		
HNEDQ77	955894	8051	1 - 384	17803			H0179: 1 and L0764: 1	19	
HNEDJ03	967115	8052	49 - 351	17804			H0179: 1, L0762: 1, L0806: 1, L0666: 1 and L0439: 1	7p15	138079, 138079, 139191, 142959, 153880, 180104, 600994, 601649
HNEDH59	739533	8053	309 - 527	17805			L0439: 5 and H0179: 1		

HNEDF15	946986	8054	56 - 235	17806	His-8 to Pro-16.		H0179: 1	
	973855	9689	443 - 610	19441				
	973858	9690	107 - 265	19442				
HNEDD15	812918	8055	115 - 450	17807	Leu-58 to Lys-63, Ser-72 to Ala-84.		L0530: 2 and H0179: 1.	
HNESC71	761415	8056	169 - 363	17808	Gly-29 to Glu-35.		H0179: 1 and L0599: 1.	
HNCEP28	469521	8057	215 - 424	17809	Thr-50 to Ile-59.		H0179: 1 and L0599: 1.	
	470445	9691	141 - 1	19443	His-39 to Arg-47.			
HNECN28	558790	8058	27 - 251	17810	Ser-21 to Gly-28.		H0179: 1	
HNECI41	712607	8059	115 - 333	17811	Pro-42 to Glu-49, Arg-65 to Ser-73.		H0179: 1 and L0749: 1.	
HNECD74	470015	8060	368 - 508	17812			H0179: 1	
	484793	9692	397 - 185	19444				
HNBEY64	514762	8061	480 - 767	17813	Ser-8 to Cys-14, Lys-55 to Cys-61.		H0179: 1	
HNBEY10	968455	8062	503 - 318	17814	Leu-3 to Glu-19.		H0179: 1 and L0776: 1.	
HNBEIN04	927811	8063	168 - 422	17815			H0179: 1 and L0366: 1.	
HNBEIM59	950732	8064	16 - 327	17816	Thr-48 to Pro-53.		H0179: 1	
HNBEIM40	868109	8065	237 - 431	17817			H0179: 1	
HNBEI395	529572	8066	2 - 202	17818	Pro-8 to Arg-13, Arg-28 to Gly-36, Pro-49 to Gly-54.		H0179: 1	
HNBEI381	529571	8067	15 - 134	17819	Leu-21 to Glu-28.		AR061: 3, AR089: 2	
HNBEI367	529573	8068	25 - 126	17820	Glu-21 to Cys-30.		H0179: 1	
HNBEI362	861074	8069	28 - 252	17821	Leu-24 to Ser-40, Leu-68 to Arg-74.		H0179: 1	
HNBEI343	529574	8070	2 - 199	17822	Lys-27 to Glu-34.		H0179: 1	
HNBEI31	529577	8071	35 - 202	17823			H0179: 1	
HNBEI321	529578	8072	1 - 180	17824			H0179: 1	
HNBEI310	968440	8073	3 - 167	17825			H0179: 1 and L0766: 1.	
HNBEI309	529579	8074	42 - 134	17826			H0179: 1	
HNBEI307	861072	8075	76 - 282	17827	Leu-6 to Pro-11, Thr-43 to Arg-51, Val-59 to Thr-69.		H0179: 1	

HNEBF27	684467	8076	2 - 148	17828	Ser-22 to Ser-27.	H0179: 1	
HNEBF20	529643	8077	2 - 79	17829	Gln-14 to Gly-23.	H0179: 1, L0662: 1, L0652: 1, L0776: 1 and L0758: 1.	
HNEAQ86	575534	8078	181 - 300	17830	Arg-6 to Cys-12.	H0179: 1	
HNEAQ37	507280	8079	1 - 237	17831		H0179: 1	
HNEAN10	968468	8080	143 - 349	17832		H0179: 1 and L0746: 1.	
HNEAK47	529646	8081	65 - 202	17833		H0179: 1	
HNEAF71	761414	8082	1 - 225	17834		H0179: 1 and L0742: 1.	
HNEAA59	738531	8083	222 - 488	17835	Pro-74 to Asn-81.	L0747: 2 and H0179: 1.	
HMWJD93	840419	8084	11 - 262	17836	Val-57 to Glu-62.	H0341: 1 and L0748: 1.	
HMWIZ55	731809	8085	2 - 151	17837		H0341: 1	
HMWIX77	973813	8086	201 - 647	17838	Glu-8 to Glu-15, Pro-43 to His-48.	H0341: 1	
HMWIX37	708676	8087	147 - 275	17839	Gly-5 to Asp-12.	L0747: 2, H0341: 1, L0774: 1, L0657: 1 and L0754: 1.	
HMWIS12	970753	8088	850 - 996	17840	Arg-14 to Leu-21.	L0779: 2, H0341: 1, L0766: 1 and L0515: 1.	
HMWIQ64	842657	8089	505 - 744	17841	Arg-20 to Asp-37.	L0748: 2 and H0341: 1.	
HMWIQ44	716509	8090	198 - 355	17842	Lys-1 to Pro-7.	H0341: 1	
HMWIO15	956253	8091	124 - 372	17843	Gln-23 to Thr-29, Cys-61 to Pro-73.	H0341: 1	
HMWIM05	861094	8092	178 - 366	17844	Leu-54 to Gly-63.	AR050: 75, AR054: 68, AR051: 62 H0341: 1	
HMWIL08	959512	8093	3 - 722	17845	Glu-28 to Pro-36, Gly-47 to Gly-56.	H0341: 1, L0741: 1, L0745: 1, L0747: 1 and L0759: 1.	
HMWIK10	964701	8094	184 - 558	17846	Leu-8 to Ser-16.	H0341: 1 and L0769: 1.	
HMWIG75	767332	8095	131 - 331	17847	Pro-10 to Gly-20, Gly-29 to His-55.	H0341: 1	
HMWIG26	861091	8096	2 - 301	17848		H0341: 1	
HMWIG17	663972	8097	4 - 159	17849	Asp-23 to Lys-29.	L0748: 2, H0341: 1 and L0747: 1.	
HMWIG13	657260	8098	19 - 354	17850	Ala-3 to Ser-8, Pro-10 to Gly-19.	H0341: 1	103000, 114350, 120900, 131195.

HMWIG01	913689	8099	51 - 161	17851	Leu-37 to Ser-53, Ser-63 to Cys-70, Pro-82 to Gln-93, Pro-95 to Pro-101.			185000, 189980, 600184, 602575, 602575
HMWID28	419821	8100	3 - 305	17852			H0341: 1	
HMWIA19	928488	8101	1 - 270	17853	Phe-16 to Ser-22, Pro-50 to Pro-56.		H0341: 1 and L0599: 1, AR054: 137, AR050: 129, AR051: 100 H0341: 1	
HMWHZ43	861097	8102	3 - 227	17854	Ile-1 to Pro-15, Leu-43 to Gly-48, Thr-51 to Gln-62, Leu-67 to Asp-75.		H0341: 1	
HMWHW82	779903	8103	55 - 174	17855	Phe-3 to Asp-10.		H0341: 1 and L0748: 1.	
HMWHV36	708099	8104	102 - 254	17856	Ser-9 to Phe-17, His-26 to Arg-32.		H0341: 1 and L0748: 1.	3
HMWHV12	970742	8105	184 - 420	17857	Ala-22 to Leu-30.		H0341: 1 and L0747: 1.	
HMWHP86	785510	8106	88 - 174	17858			H0341: 1 and L0748: 1.	
HMWHDP4	794306	8107	1 - 108	17859			H0341: 1	
HMWHB71	565104	8108	899 - 1129	17860	His-49 to Ala-57.		H0341: 1	
HMWGW79	646280	8109	54 - 377	17861	Thr-1 to Lys-12, Thr-68 to Arg-89.		L0439: 2, H0341: 1 and L0748: 1.	
HMWQG48	861114	8110	185 - 424	17862	Thr-46 to Ile-55.		AR050: 43, AR054: 39, AR051: 38 H0341: 1	
HMWGI79	774806	8111	462 - 262	17863	Arg-18 to His-27.		H0341: 1	
	774828	9694	79 - 285	19446	Glu-7 to Ser-12, Lys-38 to Gly-64.			
HMWGH30	455037	8112	268 - 119	17864	Asp-4 to Ser-14.		H0341: 1 and L0475: 1.	
	692606	9695	116 - 310	19447	Lys-41 to Asp-48.			
HMWGB06	935593	8113	133 - 345	17865			H0341: 1 and L0776: 1.	
HMWFI93	506636	8114	170 - 448	17866			H0341: 1 and L0439: 1.	
HMWFN80	573608	8115	98 - 205	17867			H0341: 1	
HMWFN37	861123	8116	58 - 441	17868	Pro-61 to Ala-71, Gly-86 to Asp-92.		H0341: 1, L0070: 1 and L0759: 1.	

HMWFN32	573603	8117	138 - 308	17869	Ala-9 to Ser-14.	H0341: 1	
HMWFI18	666681	8118	197 - 346	17870		H0341: 1 and L0748: 1.	
HMWFC88	592078	8119	46 - 357	17871	Trp-7 to Leu-14.	H0341: 1 and L0748: 1.	
HMWFD86	785629	8120	122 - 412	17872	Asn-4 to His-10, Gly-18 to Leu-34, Ala-48 to Trp-54.	H0341: 1 and L0766: 1.	
HMWFD68	861124	8121	3 - 161	17873	His-1 to Asp-6.	L0749: 2 and H0341: 1.	
HMWFC64	573596	8122	120 - 323	17874	Gly-24 to His-41.	H0341: 1	
HMWET56	812712	8123	2 - 259	17875	Ser-1 to Ser-8.	H0341: 1	
HMWEQ52	728535	8124	62 - 274	17876	Ala-28 to Gly-34.	H0341: 1 and L0766: 1.	
HMWEN61	909931	8125	2 - 322	17877	Glu-6 to Gly-11, Asp-61 to Asn-68, Glu-93 to Asn-102.	AR051: 21, AR054: 15, AR050: 1	
HMWEL56	733583	8126	3 - 263	17878	Glu-20 to Ala-35.	H0341: 1	
HMWEL53	861141	8127	3 - 137	17879	Lys-1 to Leu-16.	H0341: 1 and L0756: 1.	
HMWEA91	790331	8128	66 - 539	17880	Ser-2 to Cys-15.	H0341: 1 and L0740: 1.	
HMWEA10	968105	8129	2 - 235	17881	His-8 to Asp-22.	L0777: 2 and H0341: 1.	
HMWDZ25	678724	8130	2 - 163	17882		H0341: 1 and L0748: 1.	
HMWDR15	660322	8131	1 - 417	17883	Asp-1 to Ile-32, Pro-34 to Pro-39, Leu-43 to Arg-48, Glu-71 to Thr-82, Pro-95 to Pro-102, Glu-114 to Lys-124.	H0341: 1 and L0754: 1.	
HMWDP06	935903	8132	18 - 110	17884		H0341: 1	
HMWDN60	974425	8133	61 - 375	17885	Pro-6 to Gly-11, Gly-54 to Arg-62.	L0756: 2 and H0341: 1.	
HMWDH55	732304	8134	98 - 310	17886	Pro-21 to His-38.	L0749: 2 and H0341: 1.	
HMWCH43	715575	8135	130 - 414	17887		H0341: 1 and L0748: 1.	
HMWCK88	955258	8136	92 - 190	17888	Phe-9 to Cys-17.	L0756: 2 and H0341: 1.	
HMWCH47	720581	8137	112 - 261	17889		H0341: 1 and L0439: 1.	
HMWCH04	615628	8138	2 - 130	17890	Ile-26 to Ser-33.	L0740: 2 and H0341: 1.	
HMWCG38	851630	8139	249 - 494	17891	Gly-1 to Lys-8, Ser-30 to Leu-43, Glu-68 to Gly-77.	H0341: 1 and L0748: 1.	

HMWB289	787111	8140	1 - 207	17892	Thr-18 to Lys-24.	H0341: 1 and L0748: 1.	
HMWB159	893995	8141	3 - 287	17893	Pro-59 to Trp-72.	AR054: 37, AR050: 34, AR051: 33, AR089: 5, AR061: 4 H0341: 1	
HMWB105	932558	8142	218 - 379	17894		L0740: 2, H0341: 1, L0761: 1, L0517: 1 and L0744: 1.	
HMWB177	888862	8143	3 - 404	17895		AR054: 18, AR051: 15, AR050: 2 H0341: 1	
HMWB140	712730	8144	393 - 617	17896		H0341: 1 and L0439: 1.	
HMWB129	927321	8145	2 - 499	17897		L0749: 2, H0341: 1, L0775: 1 and L0439: 1.	
HMWB161	859404	8146	2 - 202	17898	Pro-9 to Gly-18.	H0341: 1	
HMWB142	714114	8147	310 - 423	17899	Gln-3 to Ser-8.	H0341: 1 and L0748: 1.	
HMWAJ04	586507	8148	27 - 395	17900	Val-1 to Leu-19, Pro-23 to Thr-29, Thr-34 to Thr-39, Pro-45 to Asn-54, His-61 to Trp-70.	AR051: 120, AR050: 118, AR054: 100 H0341: 1	
HMVDZ11	966351	8149	2 - 145	17901		S0212: 1, L0744: 1 and L0596: 1.	
HMVDV55	811616	8150	3 - 245	17902		L0439: 2, S0212: 1 and L0748: 1.	
HMVDQ02	919057	8151	209 - 355	17903		S0212: 1, L0774: 1 and L0589: 1.	
HMVDL45	717384	8152	341 - 655	17904	Ser-1 to Gln-17, Tyr-48 to Ser-64, Asp-69 to Lys-84.	L0438: 2, L0439: 2 and S0212: 1.	
HMVDI60	877124	8153	398 - 661	17905	Glu-29 to Ile-36, Arg-47 to Ser-54, Arg-62 to Ser-67.	S0212: 1, L0756: 1 and L0731: 1.	
HMVDE10	861184	8154	247 - 462	17906		S0212: 1 and L0759: 1.	
HMVCY89	786651	8155	352 - 471	17907		L0748: 5 and S0212: 1.	
HMVCY14	657801	8156	1 - 474	17908		L0748: 3 and S0212: 1.	
HMVC026	681174	8157	119 - 340	17909	Asp-21 to Leu-27.	S0212: 1, L0471: 1 and	

HMVBV77	771974	8158	422 - 577	17910		Asn-2 to Asp-9	L0754: 1.		
HMVBV16	661692	8159	318 - 461	17911			S0212: 1 and L0439: 1. S0212: 1, L0790: 1, L0749: 1 and L0777: 1.		
HMVBUB89	786118	8160	213 - 452	17912		Tyr-22 to Thr-27.	S0212: 1 and L0439: 1.		
HMVB083	780366	8161	494 - 736	17913		Ala-47 to His-52.	L0747: 2 and S0212: 1.		
HMVB091	790025	8162	94 - 219	17914		Phe-23 to Ala-28.	S0212: 1 and L0754: 1.		
HMVBFB52	726546	8163	3 - 215	17915			S0212: 1 and L0757: 1.		
HMVBFB44	716410	8164	264 - 386	17916			L0749: 2 and S0212: 1.		
HMVA154	888180	8165	86 - 562	17917		Thr-13 to Trp-20, Gly-52 to Leu-59, Gln-138 to Thr-143.	S0212: 1 and L0769: 1.	16p12-p11	108730, 147781, 172471, 186580, 266600, 600760, 600760, 600761, 600761, 602066
HMVA152	726515	8166	39 - 428	17918		Thr-10 to Cys-25, Ser-39 to Asp-47.	S0212: 1 and L0754: 1.		
HMVA156	732985	8167	146 - 304	17919		Ser-31 to Ser-43.	L0439: 2, S0212: 1 and L0594: 1.		
HMVA171	761400	8168	2 - 145	17920			S0212: 1 and L0439: 1.		
HMVA152	861210	8169	1 - 378	17921		Ile-46 to Ile-51.	S0212: 1 and L0754: 1.		
HMVA167	751600	8170	527 - 811	17922			L0748: 2 and S0212: 1.		
HMSPH53	861245	8171	2 - 307	17923		Ser-67 to Trp-72.	S0426: 1 and L0783: 1.		
HMSPH04	926800	8172	2 - 250	17924			L0776: 2, L0588: 2, S0426: 1, L0803: 1 and L0602: 1.		
HMSPA30	861265	8173	365 - 189	17925			S0426: 1 and L0749: 1.		
HMSP028	861287	8174	473 - 24	17926			S0426: 1 and L0565: 1.	10q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 602082
HMSP088	861292	8175	1 - 471	17927		Glu-9 to Gln-18, Asp-24 to Leu-29, Pro-38 to Ser-112, Ala-115 to Thr-121.	S0426: 1 and L0591: 1.		

HMSOJ01	915084	8176	500 - 775	17928	Pro-33 to Thr-39.	S0426: 1, L0662: 1, L0766: 1, L0748: 1, L0779: 1 and L0759: 1.	
HMSOH03	922828	8177	212 - 397	17929		S0426: 1, L0438: 1 and L0439: 1.	
HMSNP06	934161	8178	249 - 419	17930		S0426: 1 and L0769: 1.	
HMSNG04	926845	8179	204 - 431	17931	Leu-1 to Lys-7, Cys-13 to Ser-23, Ser-25 to Gly-48, Thr-57 to Pro-65.	L0623: 1 and S0426: 1.	
HMSMY10	963431	8180	39 - 191	17932	Ala-1 to Tyr-12, Pro-44 to Leu-51.	S0426: 1, L0748: 1 and L0749: 1.	
HMSMW91	861336	8181	1 - 117	17933		S0426: 1 and L0749: 1.	
HMSMW64	861338	8182	22 - 441	17934	Val-3 to Lys-9, Leu-32 to Gly-40, Glu-70 to Gly-83.	S0426: 1 and L0589: 1.	
HMSMO59	861341	8183	148 - 495	17935	Arg-33 to Phe-41, Ser-62 to Lys-67.	L0596: 2 and S0426: 1.	
HMSMN71	927097	8184	3 - 533	17936	Lys-1 to Glu-7, Glu-18 to Asp-33, Leu-44 to Leu-50, Thr-67 to Ala-82, Ser-90 to Ser-98, Leu-130 to Glu-135.	AR061: 7, AR089: 3 L0483: 1 and S0426: 1.	
HMSMN26	861345	8185	2 - 136	17937	Gly-22 to Trp-29.	S0426: 1 and L0748: 1.	
HMSLH07	953390	8186	1 - 96	17938		S0002: 1 and L0521: 1.	
HMSK008	861372	8187	184 - 447	17939		S0002: 1	
HMSKH24	495770	8188	372 - 268	17940	Pro-19 to Arg-27.	S0002: 1	
	596892	9696	178 - 390	19448			
HMSIX84	763032	8189	338 - 496	17941	Asn-1 to His-10.	S0002: 1 and L0439: 1.	
HMSJW48	852496	8190	674 - 1159	17942	Pro-52 to Ser-58, Cys-82 to Ala-87, Pro-104 to Ala-114, Pro-123 to Thr-128, Gly-144 to Gly-158.	S0002: 1	
HMSIU80	775416	8191	231 - 395	17943	Lys-18 to Asp-24.	L0748: 3 and S0002: 1.	

HMSIQ40	954003	8192	2 - 331	17944		S0002: 1	
HMSIO72	465884	8193	49 - 270	17945	Leu-52 to Tyr-58.	S0002: 1 and L0748: 1.	
HMSIO43	715274	8194	1 - 63	17946		S0002: 1	
HMSIM02	920070	8195	351 - 1091	17947	Arg-33 to Thr-38.	S0002: 1 and L0597: 1.	
HMSJL53	921263	8196	71 - 433	17948	Lys-13 to Ala-20, Gln-57 to Cys-65.	AR050: 30, AR051: 29, AR054: 23	
						S0002: 1	
HMSIJ22	495774	8197	581 - 408	17949		S0002: 1	
	855778	9697	353 - 613	19449	Tyr-28 to Gly-34.		
HMSIJ78	772846	8198	170 - 421	17950		S0002: 1 and L0591: 1.	
HMSID56	868168	8199	219 - 446	17951		S0002: 1 and L0766: 1.	
HMSIZ49	973806	8200	445 - 645	17952		S0002: 1	
HMSIW04	465835	8201	585 - 749	17953		S0002: 1 and L0756: 1.	
HMSIU74	765600	8202	270 - 377	17954		S0002: 1 and L0746: 1.	
HMSIT32	699241	8203	322 - 492	17955		S0002: 1, L0517: 1 and L0756: 1.	
					Ser-29 to Leu-34, Arg-42 to Gly-51.	S0002: 1 and L0439: 1.	
HMSIT28	686663	8204	29 - 217	17956			
					Gln-13 to Leu-18, Asn-29 to Arg-35.	S0002: 1 and L0599: 1.	
HMSIP20	669671	8205	169 - 300	17957			
HMSIP02	920079	8206	402 - 223	17958		S0002: 1 and L0749: 1.	
HMSIK04	615218	8207	16 - 201	17959		S0002: 1 and L0766: 1.	
HMSIB06	935151	8208	289 - 47	17960	Trp-1 to Asp-6.	S0002: 1 and L0749: 1.	
	935272	9698	212 - 403	19450	Asn-3 to Trp-10.		
HMSHV11	967007	8209	28 - 153	17961	Tyr-1 to Asn-7.	S0002: 1 and L0605: 1.	
HMSHU68	753038	8210	513 - 271	17962		S0002: 1 and L0757: 1.	
HMSHU37	495778	8211	195 - 1	17963	Leu-40 to Gly-53, Arg-60 to Arg-65.	S0002: 1	
	855786	9699	1 - 282	19451			
	855787	9700	344 - 514	19452			
HMSHT11	967068	8212	348 - 485	17964		L0476: 1 and S0002: 1.	
HMSHO45	717808	8213	57 - 227	17965		S0002: 1 and L0745: 1.	
HMSHU09	709471	8214	359 - 736	17966		S0002: 1 and L0731: 1.	
HMSHI61	741834	8215	111 - 341	17967	Thr-43 to Asp-49.	L0777: 2, S0002: 1, L0745: 1, L0746: 1 and L0750: 1.	

HMSHG08	959461	8216	1 - 150	17968	Pro-11 to Ala-22, Thr-44 to Arg-50.	S0002: 1 and L0742: 1.
HMSHG06	935496	8217	194 - 349	17969	Thr-13 to Arg-24, Cys-40 to Lys-47.	S0002: 1 and L0758: 1.
HMSHE81	784966	8218	2 - 430	17970	Ala-4 to Tyr-11, Thr-26 to Pro-38, Ser-56 to Asp-64, Ser-70 to Ser-76.	AR089: 27, AR061: 8 S0002: 1 and L0754: 1.
HMSHE17	662265	8219	446 - 694	17971	Ser-11 to Thr-18.	AR050: 29, AR051: 29, AR054: 26 L0748: 2 and S0002: 1.
	847271	9701	418 - 606	19453	Pro-31 to Cys-40, Pro-42 to Glu-48.	
HMSHD80	882700	8220	273 - 518	17972		S0002: 1
HMSHB81	777946	8221	424 - 636	17973	Thr-31 to Gly-38, Leu-43 to Asn-55.	L0750: 2 and S0002: 1.
HMSGX86	793163	8222	3 - 158	17974	Ala-21 to Lys-28.	S0002: 1
HMSGF56	733562	8223	174 - 308	17975	Asp-1 to Asn-9 Leu-31 to Val-39.	L0748: 2 and S0002: 1.
HMSGF54	730823	8224	265 - 119	17976	Ser-41 to Arg-49.	S0002: 1 and L0362: 1.
HMSGF51	761922	8225	124 - 333	17977	Gln-20 to Ser-25, Gln-42 to Ile-52.	S0002: 1 and L0592: 1.
HMSGD24	677337	8226	14 - 136	17978	Lys-22 to His-38, Lys-48 to Arg-59.	L0748: 2 and S0002: 1.
HMSGC85	783608	8227	266 - 21	17979		S0002: 1, L0779: 1 and L0731: 1.
	881955	9702	275 - 514	19454	Lys-1 to Ala-10, Gln-53 to Thr-58.	
HMSFY63	745230	8228	184 - 315	17980		S0002: 1 and L0745: 1.
HMSFX73	888326	8229	97 - 2	17981	Gly-8 to Glu-18.	AR054: 44, AR050: 25, AR051: 19 S0002: 1
HMSFS08	959773	8230	290 - 421	17982	Glu-1 to Tyr-7.	S0002: 1 and L0758: 1.
HMSFR23	919890	8231	763 - 1002	17983	Gly-58 to Ala-64.	S0002: 1
HMSFN08	959774	8232	1 - 282	17984		S0002: 1 and L0794: 1.
HMSFN68	753635	8233	2 - 88	17985		S0002: 1
HMSFN13	384695	8234	22 - 222	17986	Leu-1 to His-6.	S0002: 1

HMSEN08	960147	8235	41 - 244	17987	Gly-2 to Leu-13.	L0748: 3, S0002: 1 and L0601: 1.	
HMSM434	706366	8236	97 - 333	17988	Glu-5 to Arg-11, Arg-19 to Lys-25, Ser-61 to Gly-69.	S0002: 1 and L0748: 1.	
HMSM64	842040	8237	73 - 198	17989	Pro-18 to Thr-23, Arg-29 to Asn-34.	S0002: 1 and L0759: 1.	
HMSM67	751865	8238	163 - 2	17990	Arg-5 to Ser-10.	S0002: 1	
HMSDQ15	600654	8239	2 - 166	17991	Glu-31 to Gln-36.	S0002: 1 and L0748: 1.	
HMSDL70	909997	8240	2 - 307	17992	Pro-12 to Glu-21, Gln-29 to Ser-34.	S0002: 1 and L0741: 1.	
HMSDK10	968435	8241	3 - 164	17993		S0002: 1 and L0756: 1.	
HMSDI34	559991	8242	2 - 154	17994	His-1 to Ser-7.	S0002: 1	
HMSDG12	574950	8243	2 - 238	17995		S0002: 1 and L0741: 1.	19p13.3
							108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
HMSDG04	927804	8244	94 - 270	17996		S0002: 1 and L0527: 1.	
HMSDB08	960260	8245	175 - 318	17997	Tyr-15 to Asn-20.	S0002: 1 and L0805: 1.	
HMSDA81	778469	8246	1 - 183	17998	Thr-12 to Ala-17.	S0002: 1 and L0752: 1.	
HMSCY01	921768	8247	1 - 240	17999		S0002: 1 and L0748: 1.	
HMSCW45	723483	8248	3 - 242	18000		L0758: 2, S0002: 1 and L0748: 1.	
HMSCT69	855855	8249	258 - 476	18001		S0002: 1	
HMSCP73	764703	8250	183 - 368	18002		S0002: 1 and L0766: 1.	
HMSCO63	855863	8251	238 - 444	18003	Ser-25 to Pro-31, Ser-45 to Gln-54.	L0748: 2, S0002: 1 and L0762: 1.	
HMSCD07	954243	8252	3 - 161	18004		S0002: 1 and L0592: 1.	
HMSBZ67	973737	8253	1 - 234	18005	Asn-1 to Arg-7.	S0002: 1	
HMSBZ13	855866	8254	2 - 142	18006		S0002: 1 and L0599: 1.	
HMSBY67	752145	8255	213 - 323	18007	Gln-24 to Gly-36.	S0002: 1 and L0777: 1.	
HMSBW54	880721	8256	89 - 289	18008	Leu-1 to Arg-7, Lys-34 to Lys-39.	S0002: 1 and L0766: 1.	

HMSBU24	678709	8257	194 - 475	18009	Asp-4 to Gly-14, Gln-16 to Cys-22, Arg-45 to Trp-56, Val-68 to Val-78.	L0603: 2 and S0002: 1.
HMSBO95	796724	8258	249 - 377	18010		
HMSBM92	792970	8259	3 - 140	18011	His-18 to Glu-25.	S0002: 1 and L0749: 1.
HMSBI82	780229	8260	3 - 188	18012	Tyr-39 to Trp-45.	S0002: 1
HMSBI56	733772	8261	3 - 68	18013	Asn-11 to Gln-17.	S0002: 1
HMSBH85	784576	8262	211 - 423	18014	Pro-50 to Cys-55.	S0002: 1 and L0600: 1.
HMSBH08	958802	8263	981 - 658	18015		S0002: 1
	958939	9703	451 - 122	19455		
HMSBH07	954457	8264	59 - 382	18016	Gly-30 to Lys-41, Asn-72 to Gly-80.	S0002: 1 and L0655: 1.
HMSBF92	582654	8265	489 - 253	18017		S0002: 1
	791382	9704	278 - 475	19456		
HMSBC31	960021	8266	207 - 434	18018	Pro-1 to Lys-14.	S0002: 1 and L0748: 1.
HMSBA43	715699	8267	43 - 261	18019		S0002: 1, L0766: 1 and L0748: 1.
HMSAV84	781872	8268	45 - 233	18020		S0002: 1 and L0748: 1.
HMSAV65	747792	8269	405 - 190	18021		S0002: 1
HMSAT76	842065	8270	2 - 172	18022	Arg-3 to Ala-15, Ala-26 to Trp-34, Gly-37 to Ser-43.	S0002: 1, L0439: 1 and L0779: 1.
					Phe-4 to Ser-11.	
HMSAQ95	796728	8271	18 - 152	18023		S0002: 1 and L0731: 1.
HMSAQ58	738495	8272	2 - 157	18024		L0740: 2 and S0002: 1.
HMSAP36	518062	8273	95 - 223	18025	Glu-20 to Glu-26.	S0002: 1
HMSAO42	714316	8274	74 - 187	18026		S0002: 1 and L0749: 1.
HMSAH80	781640	8275	71 - 310	18027	Arg-8 to Arg-14, Arg-26 to Thr-33, Ser-50 to Trp-55.	S0002: 1 and L0748: 1.
HMQDV06	936015	8276	11 - 415	18028	Thr-18 to Glu-26, Pro-44 to Gln-49, Thr-55 to Lys-60, Arg-100 to Asn-107, Pro-115 to Gln-122.	H0250: 1, L0761: 1 and L0800: 1.
HMQDQ42	457221	8277	1 - 294	18029	Leu-12 to Asp-18.	H0250: 1 and L0748: 1.

HMQDL40	711421	8278	121 - 255	18030	Cys-62 to Ser-72, Ala-1 to Ser-7, Pro-29 to Gly-39.	H0250: 1 and L0749: 1.	
HMOCZ16	708066	8279	162 - 386	18031		L0748: 2 and H0250: 1.	
HMOCZ18	574068	8280	1 - 297	18032		H0250: 1 and L0743: 1.	
HMOCX42	712966	8281	57 - 266	18033		L0748: 2 and H0250: 1.	
HMOCV29	974683	8282	2 - 499	18034	Pro-7 to Gln-20.	H0250: 1 and L0766: 1.	
HMOCN17	385544	8283	124 - 288	18035		H0250: 1, L0779: 1 and L0591: 1.	
HMOCM46	719201	8284	2 - 136	18036	Lys-6 to Lys-15.	H0250: 1	
HMOCM41	711586	8285	2 - 115	18037	Ser-14 to Tyr-20.	H0250: 1	
HMOCM05	932363	8286	40 - 171	18038		H0250: 1	
HMOCM69	754188	8287	1 - 201	18039		H0250: 1 and L0756: 1.	
HMOCM54	728851	8288	195 - 278	18040		L0747: 2 and H0250: 1.	
HMOCB03	963370	8289	1 - 255	18041		L0498: 2 and H0250: 1.	
HMOCB40	779856	8290	204 - 473	18042		H0250: 1 and L0777: 1.	
HMPTA56	921233	8291	3 - 290	18043	Phe-1 to Gly-7, Lys-9 to Pro-23, Arg-65 to Ala-70, Leu-76 to Gln-82, Leu-90 to Pro-95.	H0109: 1	
HMPTA28	685099	8292	171 - 284	18044	Pro-5 to Met-10.	H0109: 1	
HMPSC38	709222	8293	97 - 330	18045		H0109: 1 and L0748: 1.	
HMPBB84	781863	8294	163 - 345	18046		H0061: 1	
HMOAD90	600400	8295	2 - 184	18047	Asp-11 to Gln-16, Asp-30 to Asn-39.	H0191: 1	
HMOAD60	855919	8296	2 - 241	18048		AR054: 2, AR051: 2, AR050: 1 H0191: 1	
HMMCL96	796276	8297	316 - 480	18049		L0748: 1 and H0444: 1.	
HMMCI01	913715	8298	187 - 342	18050	Val-22 to Gly-29.	L0785: 1 and H0444: 1.	
HMMCH69	754902	8299	2 - 112	18051		H0444: 1 and L0605: 1.	
HMMCH09	625366	8300	287 - 595	18052	Gln-40 to Gly-46, Ser-72 to His-78, Pro-93 to Trp-99.	L0748: 1 and H0444: 1.	

HMMCD83	875272	8301	315 - 440	18053	Thr-8 to Lys-20.	L0599: 2, L0369: 1 and H0444: 1.
HMMCD23	675720	8302	1 - 276	18054	Thr-10 to Gly-17, Ser-39 to Ala-66.	L0754: 1 and H0444: 1.
HMMCA11	966677	8303	28 - 336	18055	Thr-31 to Asp-44.	L0749: 1 and H0444: 1.
HMMCA08	958980	8304	81 - 260	18056		L0532: 1 and H0444: 1.
HMMB218	666192	8305	247 - 441	18057		L0748: 7, L0766: 3, L0749: 2, L0717: 1, L0527: 1, L0779: 1 and H0444: 1.
HMMB205	566870	8306	75 - 401	18058	Pro-14 to Ser-20, Glu-80 to Trp-87.	AR051: 53, AR050: 53, AR054: 36, L0759: 1 and H0444: 1.
	882446	9705	314 - 682	19457	Ser-3 to Thr-8.	
HMMBX01	916067	8307	100 - 270	18059		L0758: 1 and H0444: 1.
HMMBV08	958987	8308	381 - 223	18060		L0769: 1 and H0444: 1.
HMMBU13	597147	8309	222 - 344	18061		L0600: 2 and H0444: 1.
HMMBT64	746399	8310	257 - 421	18062		L0748: 1 and H0444: 1.
HMMBT30	841959	8311	305 - 583	18063	Ser-72 to Asn-77.	L0766: 1 and H0444: 1.
HMMBT03	855930	8312	99 - 332	18064		H0444: 1
HMMBQ08	958988	8313	117 - 281	18065	Pro-8 to Lys-15.	L0740: 1 and H0444: 1.
HMMBO49	722753	8314	22 - 279	18066		L0754: 1 and H0444: 1.
HMMBO28	686318	8315	1 - 147	18067		L0748: 1 and H0444: 1.
HMMBN76	769890	8316	327 - 494	18068	Lys-1 to Ile-7.	L0748: 1, L0749: 1 and H0444: 1.
HMMBN71	973436	8317	95 - 331	18069	Asn-72 to Leu-79.	H0444: 1
HMMBN54	729352	8318	135 - 398	18070		L0748: 1 and H0444: 1.
HMMBM83	781010	8319	19 - 192	18071		L0748: 1 and H0444: 1.
HMMBL55	731523	8320	221 - 373	18072	Pro-8 to Lys-28, Ile-41 to Cys-48.	L0754: 1 and H0444: 1.
HMMBH64	746402	8321	2 - 193	18073	Ser-23 to Glu-29, Pro-54 to Asp-63.	L0439: 1 and H0444: 1.
HMMBF86	812597	8322	2 - 163	18074	Arg-20 to Trp-26, Ser-30 to Glu-43.	L0748: 1 and H0444: 1.
HMMBF72	761389	8323	165 - 317	18075	Lys-16 to Lys-51.	H0444: 1 and L0599: 1.
HMMBF41	711731	8324	366 - 506	18076		H0444: 1 and L0581: 1.

HMMALV44	716396	8325	183 - 338	18077	Lys-12 to Arg-18.	L0748: 2 and H0444: 1.
HMMAT23	973437	8326	3 - 305	18078	Arg-1 to Gly-7.	H0444: 1
HMMAT08	990005	8327	125 - 343	18079	Gln-19 to Leu-25.	H0444: 1 and L0599: 1.
HMMAS73	764280	8328	376 - 597	18080	Lys-22 to Gly-27.	L0756: 1 and H0444: 1.
HMMAR20	669523	8329	373 - 549	18081		L0748: 2 and H0444: 1.
HMMAO70	757070	8330	324 - 413	18082		L0748: 1 and H0444: 1.
HMMAO06	935087	8331	453 - 656	18083	Pro-28 to Asn-33, Phe-46 to Gly-52, Thr-61 to Asn-67.	L0638: 1 and H0444: 1.
HMMAL71	760206	8332	159 - 425	18084	Pro-79 to Ile-84.	H0444: 1
HMMAL69	754908	8333	213 - 365	18085	Pro-12 to Gln-19.	L0749: 1, H0444: 1 and L0605: 1.
HMMAL59	738982	8334	246 - 404	18086	Arg-1 to Gly-7.	H0444: 1
HMMAL54	729351	8335	241 - 357	18087	Glu-2 to Gly-7.	H0444: 1
HMMAL44	716407	8336	144 - 320	18088	Thr-9 to Trp-19.	L0662: 1, L0749: 1 and H0444: 1.
HMMAL42	713542	8337	34 - 183	18089	Lys-24 to Val-30, Thr-44 to Arg-49.	H0444: 1
HMMAL35	707278	8338	97 - 303	18090	Lys-1 to Gln-6, Ser-27 to Lys-43, Glu-50 to Lys-62.	L0529: 1 and H0444: 1.
HMMAL30	693545	8339	6 - 80	18091		H0444: 1
HMMAL18	665512	8340	174 - 356	18092	Ser-1 to Lys-32.	H0444: 1
HMMAL16	661699	8341	296 - 412	18093	Pro-20 to Phe-25.	H0444: 1
HMMAL83	781016	8342	193 - 345	18094		H0444: 1.
HMMAL61	741662	8343	142 - 321	18095		L0748: 1 and H0444: 1.
HMMALF92	973971	8344	265 - 459	18096		H0444: 1
HMMAL34	842015	8345	297 - 479	18097		L0762: 1 and H0444: 1.
HMMAL45	720838	8346	55 - 351	18098		L0748: 4, L0367: 1, L0747: 1 and H0444: 1.
HMMAL16	856007	8347	117 - 344	18099	Ser-23 to Cys-31.	L0754: 1 and H0444: 1.
HMMALB96	826488	8348	285 - 563	18100		H0444: 1
HMC1W93	897377	8349	1 - 306	18101	Arg-1 to Gly-16, Thr-30 to Ser-42.	S0344: 1

HMCHZ77	771795	8350	2 - 346	18102			AR061: 8, AR089: 5 S0344: 1 and L0748: 1.
HMCHS34	703691	8351	127 - 273	18103	Arg-18 to Gly-23.		L0748: 3 and S0344: 1.
HMCHK58	752431	8352	580 - 419	18104			S0344: 1 and L0601: 1.
HMCGX46	886903	8353	1 - 426	18105	Glu-25 to Asn-32, His-49 to Asn-57.		AR051: 24, AR050: 18, AR054: 10 S0344: 1
HMCGV66	787512	8354	1 - 216	18106	Tyr-16 to Trp-25, Val-49 to Pro-54, Glu-62 to Leu-68.		S0344: 1 and L0747: 1.
HMCGF39	856222	8355	1 - 321	18107			L0455: 1, S0344: 1 and L0439: 1.
HMCFR57	734404	8356	161 - 358	18108			S0344: 1, L0748: 1 and L0756: 1.
HMCFM86	846578	8357	13 - 171	18109	Ser-30 to Gly-36.		S0344: 1 and L0748: 1.
HMCFM04	927002	8358	182 - 343	18110	Lys-16 to Trp-22, Gly-39 to Ala-50.		S0344: 1 and L0517: 1.
HMCDN93	791555	8359	185 - 322	18111	Arg-1 to Val-9.		S0142: 1, L0439: 1 and L0746: 1.
HMCDL70	757192	8360	98 - 373	18112	Thr-10 to Gly-17, Lys-21 to Pro-30, Pro-45 to Ser-55.		S0142: 1 and L0600: 1.
HMCA04	925591	8361	225 - 563	18113	His-1 to Ile-14.		S0142: 1 and L0748: 1.
HMALZ77	836266	8362	2 - 343	18114	Asn-12 to Gln-17, Gly-25 to Ala-34, Lys-72 to Ser-78.		AR089: 1, AR061: 0 S0278: 1 and L0591: 1.
HMALK06	933960	8363	61 - 222	18115	Gly-31 to Leu-36.		S0278: 1 and L0456: 1.
HMAJZ39	751523	8364	2 - 280	18116	Glu-13 to Gln-19.		S0278: 1, L0438: 1 and L0604: 1.
HMAJL09	950168	8365	2 - 493	18117	Tyr-30 to Ser-35, Arg-94 to Gly-100.		AR089: 0, AR061: 0 S0278: 1
HMAJL09	856821	8366	1 - 453	18118	Arg-41 to Ala-58, Ala-62 to Ser-71, Leu-88 to Gly-96.		AR051: 19, AR050: 17, AR054: 2 S0278: 1
HMAJQ20	669436	8367	94 - 303	18119	Asn-16 to Asp-21.		L0745: 2 and S0278: 1.
HMAJH15	956705	8368	534 - 268	18120	Ala-2 to Trp-7.		AR089: 1, AR061: 0

HMATA55	899404	8369	89 - 877	18121	Pro-35 to Asp-46, Pro-28 to Cys-34, Asn-153 to Gly-161, Ala-227 to Asn-233.	S0278: 1 AR051: 37, AR061: 9, AR054: 6, AR089: 4, AR050: 1 S0278: 1		
HMAHP37	566344	8370	177 - 440	18122	Gln-17 to Gly-27.	S0278: 1		
HMAGT95	795686	8371	22 - 330	18123	Cys-44 to Ser-52, Arg-96 to Leu-103.	S0278: 1 and L0742: 1.		
HMAGS90	788683	8372	58 - 258	18124	Phe-4 to Leu-11, Pro-14 to Leu-20.	L0777: 2 and S0278: 1.		
HMAGI39	910152	8373	118 - 321	18125		L0776: 2 and S0278: 1.	19q13.4	134790, 191044, 600040, 600138
HMAFF71	760304	8374	2 - 550	18126		L0731: 2, S0144: 1 and L0750: 1		
HMAFC96	796348	8375	32 - 448	18127	Arg-1 to Ser-13, Gly-24 to Pro-33, Ser-44 to Glu-50.	S0144: 1 and L0748: 1.	11p15.5	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
HMAEK93	791549	8376	355 - 582	18128	Ser-24 to Lys-39, Trp-52 to Pro-58.	S0144: 1 and L0731: 1.		
HMADF74	944465	8377	144 - 1145	18129	Gly-5 to Glu-16, Gly-28 to Ser-34, Pro-186 to Pro-196, Ser-213 to Asn-219, Ser-249 to Ile-267.	AR089: 12, AR061: 8 S0144: 1		
HMACZ84	975349	8378	147 - 353	18130	His-7 to Phe-13.	S0144: 1		

HMCAV54	922354	8379	421 - 170	18131	Thr-50 to Phe-62, Pro-69 to His-75.	AR089: 21, AR061: 16 S0144: 1 and L0767: 1.
HMA155	753560	8380	27 - 275	18132		S0144: 1 and L0756: 1.
HMA155	388074	8381	138 - 383	18133		AR061: 0, AR089: 0 S0144: 1
HLYN64	970747	8382	26 - 397	18134		L0748: 3 and H0445: 1.
HLYN40	710825	8383	125 - 256	18135	Gly-14 to His-20.	L0745: 1 and H0445: 1.
HLYL55	731447	8384	213 - 443	18136		L0754: 1 and H0445: 1.
HLYHK64	746310	8385	87 - 215	18137	Asn-25 to Ile-30.	L0744: 1, L0748: 1 and H0445: 1.
HLYHK61	932994	8386	1 - 549	18138	Lys-61 to Ser-68, Ser-91 to Lys-96.	L0747: 2, L0748: 1, L0750: 1 and H0445: 1.
HLYHK34	703776	8387	298 - 519	18139	Lys-37 to Lys-71.	AR089: 1, AR061: 1 L0766: 1, L0754: 1 and H0445: 1.
HLYHJ37	708625	8388	257 - 421	18140	Pro-16 to Ser-22, Ala-32 to Lys-39.	L0439: 1 and H0445: 1.
HLYHJ02	919201	8389	232 - 444	18141	Ile-17 to Ser-23, Gln-39 to Ser-57.	L0758: 1 and H0445: 1.
HLYHI05	953925	8390	424 - 20	18142	Asn-98 to Tyr-105, Lys-130 to His-135.	L0766: 1 and H0445: 1.
HLYHF62	743058	8391	89 - 277	18143	Asn-13 to Gln-18.	H0445: 1 and L0361: 1.
HLYHE85	784140	8392	294 - 506	18144	Ser-18 to Cys-33, Asn-36 to His-42.	L0766: 1 and H0445: 1.
HLYHA48	721372	8393	170 - 466	18145	Asn-1 to Pro-8, Leu-58 to Gln-64.	L0766: 5 and H0445: 1.
HLYHA04	614848	8394	83 - 229	18146	Ser-17 to Gly-22.	L0748: 2 and H0445: 1.
HLYGZ71	760115	8395	275 - 613	18147	Gly-8 to Leu-13, Pro-46 to Val-51, Leu-56 to Arg-64, Val-100 to Gln-110.	L0761: 1 and H0445: 1.
HLYGZ11	966503	8396	194 - 430	18148		L0598: 1, L0648: 1 and H0445: 1.
HLYGY60	740081	8397	119 - 397	18149		L0748: 2, L0766: 1, L0439: 1, L0750: 1, L0755: 1, H0445: 1 and L0601: 1.

HLXGW95	795682	8398	110 - 373	18150	Val-15 to Pro-20, Pro-41 to Leu-46, Leu-50 to Leu-57, Gly-63 to His-77, Ser-81 to Gly-87.	L0749: 1, L0777: 1 and H0445: 1.
	HLXGR56	733123	8399	481 - 636	18151	L0731: 1 and H0445: 1.
	HLXGQ29	689972	8400	91 - 213	18152	L0754: 2 and H0445: 1.
	HLXGQ11	966539	8401	45 - 194	18153	L0766: 1 and H0445: 1.
	HLXGM76	769835	8402	235 - 450	18154	H0445: 1 and L0362: 1.
	HLXGM08	958820	8403	110 - 3	18155	L0754: 1 and H0445: 1.
	HLXGJ76	685240	8404	388 - 564	18156	H0445: 1 and L0605: 1.
	HLXGH51	871634	8405	162 - 464	18157	AR089: 1, AR061: 0
	HLXGD69	754841	8406	108 - 302	18158	L0748: 1 and H0445: 1.
	HLXGB38	709187	8407	19 - 279	18159	L0753: 1 and H0445: 1.
	HLXFW38	709185	8408	114 - 392	18160	L0748: 2 and H0445: 1.
						H0445: 1.
	HLXFU24	856392	8409	362 - 532	18161	H0445: 1 and L0599: 1.
	HLXFR17	859567	8410	271 - 582	18162	L0747: 1 and H0445: 1.
	HLXFP56	871637	8411	173 - 391	18163	L0766: 3 and H0445: 1.
	HLXFO29	690381	8412	308 - 496	18164	H0445: 1 and L0596: 1.
	HLXFE11	966519	8413	103 - 276	18165	L0749: 1 and H0445: 1.
	HLXFD51	725116	8414	3 - 548	18166	L0157: 1, L0766: 1, L0439: 1 and H0445: 1.
	HLXFC54	729299	8415	91 - 249	18167	H0445: 1 and L0600: 1.
	HLXEV46	889678	8416	213 - 443	18168	L0788: 1 and H0445: 1.
		889804	9706	497 - 757	19458	
	HLXEV42	856395	8417	107 - 448	18169	L0748: 1 and H0445: 1.
	HLXET54	729406	8418	281 - 556	18170	L0748: 1 and H0445: 1.
	HLXET48	721501	8419	310 - 429	18171	L0439: 1 and H0445: 1.

HLYEY17	662764	8420	1 - 141	18172			L0748: 1 and H0445: 1.	
HLYES45	717640	8421	296 - 643	18173			L0439: 1 and H0445: 1.	
HLYPE59	739151	8422	228 - 536	18174			L0748: 2 and H0445: 1.	
HLYES083	781038	8423	214 - 477	18175	Ser-79 to Ile-88.		L0596: 2 and H0445: 1.	
HLYES037	708623	8424	399 - 551	18176	Thr-12 to Val-19.		L0748: 1 and H0445: 1.	
HLIEL71	760220	8425	296 - 550	18177	Arg-28 to Gln-36.		L0777: 1 and H0445: 1.	
HLIED44	716430	8426	3 - 353	18178	Lys-1 to Trp-7, Pro-31 to Ser-37, Pro-46 to Asn-61, Gly-81 to Thr-90.		L0753: 1 and H0445: 1.	
HLIEC21	670678	8427	2 - 163	18179	Cys-44 to Cys-50.		L0756: 1 and H0445: 1.	
HLIEB11	966748	8428	85 - 351	18180			L0748: 4 and H0445: 1.	
HLIEA92	561537	8429	5 - 115	18181	Asp-13 to Asp-18.		AR054: 16, AR050: 8, AR051: 1	
HLIEA86	488801	8430	135 - 326	18182	Ser-9 to Ser-14, Phe-40 to Asn-45.		L0748: 1 and H0445: 1.	
HLIEA70	943886	8431	1 - 423	18183	Val-87 to Gln-93, Tyr-123 to Gln-130.		AR054: 15, AR050: 2, AR051: 1	
HLIEA49	722787	8432	33 - 161	18184	Gln-21 to Ser-27.		H0445: 1	
HLIEY72	761359	8433	275 - 478	18185			H0445: 1 and L0599: 1.	
HLIEYX40	856401	8434	94 - 450	18186	Ser-56 to Asn-65, Lys-84 to Arg-91, Lys-114 to Ser-119.		L0740: 1 and H0445: 1.	
HLIEYV57	800224	8435	72 - 152	18187	Leu-1 to Arg-6.		L0745: 1 and H0445: 1.	
HLIEYU14	658035	8436	281 - 445	18188	Ser-47 to Gly-52.		L0748: 1 and H0445: 1.	
HLIEYD77	856405	8437	262 - 453	18189	Leu-58 to Arg-64.		L0758: 2 and H0445: 1.	
HLIEYD09	972424	8438	160 - 411	18190	Asp-58 to Ser-65.		H0445: 1	
HLIEYDQ75	767176	8439	203 - 502	18191	Gln-15 to Leu-36, Lys-78 to Thr-85.		L0749: 1 and H0445: 1.	
HLIEDM45	717079	8440	3 - 224	18192			L0518: 5, L0748: 1 and H0445: 1.	
HLIEDK95	973370	8441	140 - 376	18193	His-10 to Glu-16, Ser-23 to Cys-30.		H0445: 1	
HLIEDI03	923826	8442	197 - 388	18194	Pro-9 to Val-22.		L0041: 1 and H0445: 1.	

HLVDG74	939025	8443	134 - 481	18195	Pro-31 to Gly-43.	L0438: 1, L0439: 1 and H0445: 1.	
HLVDG42	713579	8444	213 - 368	18196		L0748: 1 and H0445: 1.	
HLVDG07	92940	8445	120 - 290	18197		L0761: 1 and H0445: 1.	
HLVDG60	740212	8446	39 - 125	18198	Asn-15 to Asp-29.	L0766: 1 and H0445: 1.	
HLVDG08	959076	8447	20 - 160	18199	His-1 to Gly-9, Thr-13 to Trp-18, Asn-21 to Glu-26.	L0749: 1 and H0445: 1.	
HLVXC70	757087	8448	257 - 604	18200	Ala-8 to Ser-14, Pro-64 to Arg-69.	L0748: 3 and H0445: 1.	
HLVXC34	703910	8449	39 - 227	18201		L0748: 1 and H0445: 1.	
HLVXC18	943714	8450	2 - 412	18202	Arg-7 to Arg-16.	AR081: 113, AR089: 106 L0777: 1 and H0445: 1.	
HLVXC02	919563	8451	1 - 138	18203	Ser-29 to Gly-40.	L0731: 1 and H0445: 1.	
HLVCU59	679219	8452	229 - 405	18204	Thr-49 to Cys-58.	L0736: 2 and H0445: 1.	180297, 248611, 251000, 263200, 600211, 600701, 601690
HLVQC43	825509	8453	257 - 466	18205	Arg-64 to Arg-69.	H0445: 1	
HLVCP63	856424	8454	14 - 184	18206	Gly-15 to Thr-21.	L0523: 1 and H0445: 1.	
HLVCO03	923844	8455	157 - 387	18207	Glu-37 to Tyr-42.	L0777: 2, L0731: 2 and H0445: 1.	
HLVCM14	657589	8456	104 - 322	18208	Lys-7 to Arg-12, Phe-35 to Gly-54.	L0748: 1 and H0445: 1.	
HLVCL69	914887	8457	372 - 509	18209		L0748: 1 and H0445: 1.	103600, 103600, 103600, 104150, 104150, 104500, 125490, 170650
HLVCF51	725067	8458	172 - 396	18210	Glu-16 to Ser-34.	L0769: 2, L0666: 1, L0748: 1, L0747: 1, L0749: 1 and H0445: 1.	
HLVCF37	949401	8459	1018 - 1341	18211	His-1 to Gly-23, Arg-43 to Leu-50, Pro-52 to Glu-59, Leu-77 to Lys-108.	AR089: 31, AR061: 5 H0445: 1	

HLYYC19	668745	8460	229 - 369	18212	Arg-23 to Ser-31, Thr-41 to His-46.	L0748: 1 and H0445: 1.
HLYCB86	785544	8461	106 - 204	18213		L0754: 1 and H0445: 1.
HLYCB11	967162	8462	76 - 258	18214		L0731: 3, L0779: 1, H0445: 1 and L0362: 1.
HLYBX91	790234	8463	587 - 778	18215		L0766: 3 and H0445: 1.
HLYBV44	485853	8464	80 - 193	18216	Glu-22 to Cys-31.	H0445: 1
	516086	9707	293 - 448	19459	Ser-1 to Gln-9, Arg-20 to Tyr-34.	
HLYBN17	463988	8465	150 - 317	18217		L0766: 3 and H0445: 1.
HLYBM44	715879	8466	14 - 328	18218		L0742: 1 and H0445: 1.
HLYB17	664101	8467	221 - 415	18219		H0445: 1 and L0599: 1.
HLYBH84	856444	8468	165 - 443	18220	Pro-67 to Ser-72, His-75 to Gln-86.	AR054: 14, AR051: 13, AR050: 0
						H0445: 1
HLYBH68	586582	8469	220 - 486	18221	Thr-40 to Ser-57.	AR050: 18, AR054: 11, AR051: 5
						H0445: 1
HLYBG85	783508	8470	1 - 246	18222	Asn-36 to Arg-46.	L0748: 1 and H0445: 1.
HLYBA50	880734	8471	2 - 232	18223	Thr-23 to Cys-39.	L0766: 2 and H0445: 1.
HLYBA06	935611	8472	295 - 441	18224		L0521: 1, L0766: 1 and H0445: 1.
HLYAX75	767225	8473	172 - 294	18225	Arg-25 to Leu-32.	H0445: 1
HLYAX32	699337	8474	129 - 200	18226	Thr-6 to Asp-19.	L0663: 1, H0445: 1 and L0599: 1.
HLYAU15	782335	8475	163 - 414	18227	Thr-25 to Ser-30.	L0748: 1, L0752: 1, L0758: 1 and H0445: 1.
HLYAS35	856469	8476	96 - 293	18228		H0445: 1 and L0592: 1.
HLYAR25	678179	8477	205 - 378	18229	Thr-32 to Lys-58.	L0777: 1 and H0445: 1.
HLYAO92	792770	8478	169 - 303	18230	Asp-33 to Gln-40.	L0740: 1 and H0445: 1.
HLYAA70	757235	8479	220 - 483	18231		L0748: 4 and H0445: 1.
HLYAAQ69	754729	8480	1 - 267	18232	Thr-50 to Ile-85.	L0754: 1 and H0445: 1.
HLYAN68	815950	8481	182 - 337	18233		H0445: 1
HLYAN21	854034	8482	126 - 302	18234	Lys-6 to Ser-17.	H0445: 1
HLYAN10	964834	8483	369 - 521	18235		L0761: 1, L0517: 1, H0445: 1

HLVAL58	736097	8484	433 - 606	18236			1 and L0599: 1.
HLVAL22	856473	8485	214 - 456	18237	Ser-1 to Asp-6, Gly-60 to Gly-66.		L0439: 2 and H0445: 1.
HLVAL11	967173	8486	100 - 294	18238	Gln-35 to Phe-47, Glu-55 to Glu-64.		L0369: 1 and H0445: 1.
HLVAK36	708028	8487	192 - 356	18239			L0766: 1, L0606: 1 and H0445: 1.
HLVAK34	421604	8488	36 - 164	18240			L0749: 1, H0445: 1 and L0599: 1.
HLVJA49	723039	8489	150 - 383	18241			L0745: 7, L0746: 3 and H0445: 1.
HLVAG59	888232	8490	157 - 441	18242	Ile-6 to Met-21.		L0483: 1, L0750: 1 and H0445: 1.
HLTHS37	708613	8491	205 - 432	18243	Asp-1 to Asn-15, Pro-31 to Gly-41.		AR051: 9, AR050: 3 H0445: 1
HLTHS02	856560	8492	23 - 217	18244	Phe-42 to Thr-49, Ile-51 to Ser-56.		L0748: 2 and H0591: 1.
HLTHC37	708620	8493	172 - 453	18245	Ser-21 to Glu-27, Asp-38 to Asn-45.		H0591: 1 and L0748: 1.
HLTGT83	780903	8494	23 - 199	18246			H0591: 1, L0659: 1 and L0439: 1.
HLTGT36	708027	8495	516 - 740	18247			H0591: 1 and L0439: 1. L0796: 2, L0747: 2, H0591: 1 and L0791: 1.
HLTGS17	662409	8496	350 - 502	18248	Pro-5 to Asn-12.		H0591: 1 and L0748: 1.
HLTGR28	693990	8497	1 - 231	18249			H0591: 1 and L0748: 1.
HLTGP47	719975	8498	182 - 379	18250	Gln-36 to Arg-52.		H0591: 1 and L0604: 1.
HLTGO89	786674	8499	1 - 129	18251	Thr-24 to Ala-30.		H0591: 1 and L0439: 1.
HLTGN92	791185	8500	153 - 242	18252			L0748: 3 and H0591: 1.
HLTGA40	710728	8501	153 - 413	18253			L0758: 2, H0591: 1 and L0439: 1.
HLTEZ30	960911	8502	209 - 331	18254	Leu-18 to Asp-33.		L0748: 2 and H0090: 1.
HLTEZ19	671610	8503	2 - 172	18255	Ser-2 to Arg-7, Leu-48 to Trp-54.		L0748: 2, L0749: 2, H0090: 1, L0756: 1 and L0758: 1.
HLTEX27	927578	8504	163 - 327	18256	Pro-27 to Asp-33.		H0090: 1 and L0748: 1.
HLTEV66	772965	8505	1 - 192	18257	Lys-19 to Asn-38.		H0090: 1 and L0731: 1.

HLTEP45	723375	8506	289 - 426	18258	Arg-1 to Lys-12.	H0090: 1 and L0362: 1.	
HLTEM25	678685	8507	2 - 190	18259	Cys-3 to Lys-11, Ile-30 to Phe-36.	H0090: 1 and L0766: 1.	
HLTEG51	494330	8508	597 - 298	18260		H0090: 1	
	514122	9708	169 - 435	19460			
HLTEG37	417243	8509	2 - 253	18261	Ser-58 to Gly-64.	H0090: 1 and L0789: 1.	
HLTEC83	574630	8510	52 - 165	18262	Asp-5 to Gly-11.	H0090: 1	
HLTEC35	574632	8511	131 - 247	18263	Asn-13 to Pro-21.	H0090: 1	
HLTEA20	669900	8512	298 - 594	18264	Ser-14 to Pro-19.	L0749: 2, H0090: 1, L0438: 1 and L0758: 1.	
HLTDR43	715529	8513	3 - 140	18265	Tyr-8 to Leu-19.	L0438: 2, L0754: 2, H0090: 1, L0803: 1, L0352: 1 and L0439: 1.	
HLTDI17	577379	8514	370 - 603	18266		H0090: 1, L0766: 1, L0745: 1, L0747: 1 and L0779: 1.	
HLTDH96	796560	8515	165 - 287	18267		H0090: 1 and L0748: 1.	250100, 250800, 250800
HLTDG59	739699	8516	68 - 352	18268		H0090: 1 and L0748: 1.	
HLTDG30	693329	8517	3 - 119	18269	Cys-10 to Pro-16, Glu-34 to Pro-39.	H0090: 1 and L0746: 1.	
HLTDB38	456860	8518	262 - 432	18270		L0748: 2 and H0090: 1.	
HLTCZ55	732385	8519	142 - 270	18271	Pro-38 to Ser-43.	H0090: 1 and L0758: 1.	
HLTCX39	705648	8520	1 - 336	18272		H0090: 1 and L0596: 1.	
HLTCT77	772458	8521	165 - 368	18273		H0090: 1 and L0745: 1.	1p21 102770, 120280, 120280, 166600, 170995, 232400, 232400, 600309, 601414, 601691, 601691, 601691, 601691, 601718, 602094
HLTCR77	772457	8522	154 - 303	18274		H0090: 1 and L0745: 1.	
HLTCR11	967559	8523	3 - 200	18275	Pro-54 to Lys-61.	H0090: 1 and L0363: 1.	
HLTCM59	442563	8524	2 - 208	18276		H0090: 1	
	739501	9709	26 - 241	19461	Lys-11 to Ser-16.		
HLTCI43	715530	8525	3 - 335	18277	Thr-16 to Arg-23.	H0090: 1 and L0439: 1.	

HLTC11	967541	8526	152 - 295	18278	Ser-35 to Leu-51, Arg-62 to Thr-75, Ser-80 to Ser-88.		
HLTCH41	507362	8527	93 - 365	18279	Gln-1 to Ser-6, Gln-23 to Phe-31, Lys-9 to Leu-21, Asn-49 to Arg-55, Gly-62 to Ser-69.	H0090: 1, L0769: 1 and L0758: 1. H0090: 1 and L0754: 1.	
HLTBU47	720662	8528	235 - 354	18280	Lys-6 to Ser-13, Arg-29 to Arg-48, Val-50 to Ser-56.	H0090: 1 and L0748: 1. H0090: 1	
HLTBU44	522741	8529	175 - 447	18281			
HLTBS07	954407	8530	2 - 106	18282		H0090: 1 and L0659: 1.	
HLTBF58	735194	8531	157 - 354	18283		H0090: 1 and L0745: 1.	
HLTBF56	907024	8532	302 - 526	18284	Asn-36 to Arg-48.	L0766: 3 and H0090: 1.	
HLTBA68	753857	8533	241 - 420	18285	Tyr-1 to Lys-6.	L0439: 2, H0090: 1 and L0745: 1.	
HLTBA41	712721	8534	273 - 491	18286	Tyr-44 to Asn-52, Ser-64 to Gln-69.	L0748: 2, H0090: 1 and L0749: 1.	
HLTBA35	707243	8535	124 - 378	18287	Lys-17 to Ser-30, Gln-44 to Glu-52.	H0090: 1 and L0731: 1.	
HLTAM07	954419	8536	3 - 215	18288	Ser-7 to Pro-13.	H0090: 1, L0766: 1 and L0776: 1.	
HLTAK57	735163	8537	1 - 90	18289	Thr-24 to Ser-30.	H0090: 1 and L0756: 1.	
HLTAA39	710361	8538	444 - 647	18290	Cys-1 to Trp-6.	L0740: 2, H0090: 1, L0439: 1 and L0777: 1.	
HLTAA27	684649	8539	3 - 92	18291		L0754: 3 and H0090: 1.	
HLMMU01	916641	8540	223 - 366	18292		H0255: 1 and L0766: 1.	
HLMMQ18	666544	8541	245 - 442	18293		L0749: 3 and H0255: 1.	
HLMMZ09	575837	8542	151 - 324	18294	Gly-1 to Trp-17, Ala-51 to Tyr-58.	H0255: 1	
HLMMI20	830074	8543	80 - 166	18295		L0748: 2, H0255: 1, L0471: 1 and L0766: 1.	
HLMMR90	575905	8544	1 - 522	18296	Gly-1 to Ser-8, Leu-21 to Gly-30.	AR051: 30, AR050: 30, AR054: 20 H0255: 1 and L0599: 1.	

HLMK61	532605	8545	506 - 129	18297	Gln-9 to Trp-15, Thr-45 to Lys-50, Gln-61 to Leu-66, Trp-79 to Val-87.	AR051: 38, AR054: 35, AR050: 33 H0255: 1	
	856817	9710	197 - 3	19462			
	856818	9711	3 - 263	19463	Cys-1 to Gly-8, Gln-13 to Trp-19, Thr-49 to Lys-54, Gln-65 to Leu-70.		
HLMK50	724485	8546	1 - 207	18298		H0255: 1, L0534: 1 and L0757: 1.	
HLMF94	811320	8547	158 - 352	18299	Pro-9 to Lys-16.	H0255: 1 and L0754: 1.	
HLMF01	916816	8548	38 - 382	18300		H0255: 1 and L0766: 1.	
HLMF43	714439	8549	198 - 542	18301	Ser-20 to Arg-25, Gly-51 to Leu-58, Leu-84 to Gln-90.	L0748: 4, H0255: 1, L0761: 1, L0768: 1 and L0747: 1.	
HLMY59	878870	8550	153 - 356	18302	Val-39 to Asn-49.	H0255: 1	
HLMG57	835799	8551	209 - 451	18303	Ala-6 to Gln-19, Ser-49 to Leu-56.	AR054: 19, AR050: 10, AR051: 2	
HLMHW80	775382	8552	177 - 446	18304	Pro-1 to Lys-6, Gly-27 to Lys-42.	H0255: 1 and L0754: 1. H0255: 1 and L0581: 1.	
HLMHT61	742044	8553	246 - 398	18305		H0255: 1 and L0754: 1.	
HLMHT49	722191	8554	253 - 411	18306		AR050: 11, AR054: 10, AR061: 6, AR089: 3, AR051: 3	
HLMHL66	910804	8555	1 - 252	18307	Pro-32 to Ser-39.	H0255: 1	
HLMHL03	856859	8556	183 - 1	18308	Lys-1 to Lys-15, Gln-50 to Arg-61.	H0255: 1 and L0603: 1.	
HLMFU46	718075	8557	276 - 443	18309	Arg-14 to Arg-21.	H0255: 1 and L0747: 1.	
HLMFL88	574812	8558	1 - 756	18310	Ala-61 to Gln-70, Pro-90 to Arg-98.	H0255: 1	
HLMFG79	974552	8559	49 - 234	18311	Thr-23 to Gly-29.	H0255: 1	
HLMFE91	531212	8560	3 - 434	18312		H0255: 1	
HLMFE79	531213	8561	190 - 402	18313		H0255: 1	

HLMPF17	531218	8562	2 - 151	18314		H0255: 1	
HLMPFD62	754076	8563	140 - 289	18315	Pro-2 to Ser-7, Glu-26 to Pro-31.	L0439: 3 and H0255: 1.	
HLMDX01	921546	8564	160 - 414	18316		H0254: 1, L0748: 1 and L0777: 1.	
HLMDH08	960055	8565	1 - 258	18317	Glu-13 to Ser-22, Ser-34 to Pro-39, Lys-50 to Gly-61, Leu-63 to Lys-68.	L0748: 4, L0770: 2, H0254: 1, L0749: 1, L0777: 1 and L0599: 1.	
HLMDC26	684911	8566	132 - 377	18318	Gly-20 to Lys-32.	H0254: 1 and L0740: 1.	
HLMLC159	529908	8567	59 - 238	18319	Gly-22 to Leu-31.	L0748: 2 and H0254: 1.	
HLMCJ55	741635	8568	3 - 344	18320	Pro-14 to Gly-21, Asp-24 to His-30, Ala-36 to Ala-51.	H0254: 1, L0756: 1 and L0758: 1.	
HLMBX91	879359	8569	94 - 627	18321	Pro-6 to Ser-15, Pro-87 to Arg-105, Gly-165 to Ala-170.	AR051: 13, AR054: 9, AR050: 3 H0255: 1	
HLMBQ54	730952	8570	94 - 369	18322	Arg-9 to Ser-26, Cys-55 to Lys-60.	H0255: 1 and L0748: 1.	
HLMBQ48	560848	8571	175 - 336	18323	Ser-39 to Arg-52. Ser-39 to Arg-52.	H0255: 1	
HLMBN04	615620	8572	84 - 254	18324		H0255: 1 and L0439: 1.	
HLMAV56	733708	8573	305 - 553	18325		L0777: 2 and H0254: 1.	
HLMAI82	523694	8574	3 - 113	18326		H0254: 1	
HLMAE86	852563	8575	88 - 291	18327		H0254: 1, L0766: 1, L0755: 1 and L0731: 1.	
HLICD85	783454	8576	3 - 527	18328	Pro-2 to Asp-13, Pro-30 to Glu-37, Pro-56 to Lys-76, Lys-83 to Ile-98, Gly-105 to Ser-113, Glu-147 to Glu-152, Asp-154 to Lys-175.	H0354: 1, L0747: 1, L0750: 1 and L0591: 1.	
HLKDC76	953502	8577	157 - 867	18329		H0611: 1, L0740: 1, L0593: 1 and L0601: 1.	143890, 151440, 600173, 600276, 600310, 600310.

HLKDB78	773172	8578	105 - 278	18330	Ser-30 to Arg-39.	L0439: 2, H0611: 1 and L0756: 1.	601604, 601843
HLKDB02	918870	8579	126 - 269	18331	Lys-19 to Arg-36.	H0611: 1 and L0605: 1.	
HLEAN30	843294	8580	161 - 328	18332	Tyr-1 to Tyr-6.	H0073: 1	
	886013	9713	235 - 633	19465	Phe-43 to Met-48, Phe-89 to Trp-95, Ser-118 to Thr-130.		
HLCD67	887375	8581	1 - 633	18333		AR054: 3, AR089: 2, AR061: 2, AR051: 1, AR050: 1 H0607: 1	
HKBBV11	965170	8582	237 - 398	18334	Ser-1 to Val-6, Gln-23 to Trp-33, Phe-36 to Arg-41.	L0471: 1 and H0625: 1.	
HKBBP05	928316	8583	34 - 171	18335		H0625: 1, L0761: 1 and L0748: 1.	
HKBAL06	934160	8584	265 - 540	18336		L0535: 2, H0625: 1 and L0759: 1.	
HKBAJ12	909644	8585	273 - 497	18337		L0766: 5 and H0625: 1.	
HKBA02	918568	8586	522 - 226	18338		H0625: 1 and L0764: 1.	
HJUBA39	888006	8587	170 - 478	18339	His-26 to Leu-34, Pro-41 to Thr-54, Asp-64 to Ser-69.	AR051: 97, AR050: 79, AR054: 77 L0748: 3, H0129: 1, L0438: 1, L0439: 1, L0747: 1, L0749: 1, L0756: 1 and L0777: 1.	
HJTRB51	470587	8588	428 - 252	18340		H0022: 1 and L0766: 1.	
	618324	9714	261 - 443	19466			
	724786	9715	269 - 463	19467	Ser-7 to Met-12.		
	724787	9716	367 - 534	19468			
HJPDK80	418622	8589	726 - 914	18341	Pro-16 to Ser-28.	L0766: 2, L0749: 2, H0083: 1, L0777: 1 and L0590: 1.	
HJPDK57	768274	8590	1 - 195	18342	Pro-51 to Ser-56.	H0083: 1	
	857395	9717	597 - 860	19469			
HJPD116	518105	8591	13 - 237	18343	Pro-1 to Pro-17.	H0083: 1 and L0666: 1.	

HJPDE23	574115	8592	45 - 212	18344		H0083: 1		
HJPPD82	857401	8593	475 - 639	18345	Ser-30 to Asn-36.	L0748: 3, L0777: 2, H0083: 1, L0775: 1, L0744: 1, L0759: 1 and L0592: 1, H0083: 1		
HJPCW09	536677	8594	1 - 186	18346			1q32.1	134580, 145260, 600105, 600759, 601975
HJPCV54	733607	8595	129 - 434	18347		H0083: 1 and L0751: 1.	17qter	
HJPCS54	871807	8596	473 - 619	18348		H0083: 1 and L0750: 1.		
HJBP22	577455	8597	2 - 145	18349	Arg-39 to Arg-44.	H0083: 1	10q23-q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 601493, 602082
HJPBA04	615585	8598	172 - 423	18350		H0083: 1 and L0608: 1.		
HJPAZ91	882668	8599	1 - 522	18351	Ile-23 to Gly-28, Val-30 to Lys-35.	H0083: 1, L0740: 1, L0754: 1 and L0745: 1.		
HJPAY56	909242	8600	3 - 212	18352		AR061: 4, AR089: 3, H0083: 1 and L0593: 1.		
HJPAX11	967599	8601	367 - 483	18353		H0083: 1, L0803: 1 and L0748: 1.		
HJPAT79	781697	8602	2 - 325	18354	Thr-4 to Thr-18, Leu-33 to Arg-43, Pro-66 to Gly-79.	H0083: 1 and L0731: 1.		
HJPAG38	709103	8603	222 - 371	18355	Tyr-39 to Gly-44.	L0600: 3 and H0083: 1.		
HJPAAG0	586675	8604	3 - 536	18356	Ile-73 to Thr-80, Asn-125 to Gln-136.	AR054: 9, AR089: 1, AR050: 1, AR061: 1, AR051: 0, L0731: 2 and H0083: 1.		
HJHSC56	578366	8605	248 - 421	18357		H0202: 1		
HJHDM21	793381	8606	60 - 383	18358	Asn-54 to Gln-60, Phe-92 to Arg-98.	L0748: 2 and T0042: 1.		
HJBOL70	757378	8607	65 - 709	18359	Phe-50 to Ser-58.	L0439: 2 and T0042: 1.		
HJBDG36	607769	8608	347 - 87	18360	Pro-34 to Tyr-46.	T0042: 1		

	857433	9718	1 - 222	19470		
	895313	9719	527 - 778	19471		
	902075	9720	1098 - 1544	19472		
HJBD63	745286	8609	214 - 423	18361	Ile-1 to Arg-12, Arg-14 to Thr-19.	T0042: 1 and L0604: 1.
HJBD11	967480	8610	470 - 700	18362	Leu-2 to Cys-13, Ser-32 to Cys-39.	L0777: 2, L0752: 2, T0042: 1, L0659: 1 and L0731: 1.
HJBCZ05	925805	8611	19 - 867	18363	Arg-1 to Pro-8, Ala-33 to Ala-39.	T0042: 1 and L0740: 1.
HJBCM55	732411	8612	163 - 456	18364	Leu-5 to Gly-10, Pro-31 to Cys-52.	T0042: 1 and L0748: 1.
HJBBG54	728810	8613	415 - 570	18365	Ile-1 to Ser-10, Gln-43 to Asp-49, Thr-118 to Thr-124, Ala-141 to Thr-146, Ser-155 to Glu-160.	L0777: 2 and T0042: 1.
HJBBF02	921242	8614	1 - 630	18366	Thr-23 to Lys-31.	L0599: 2, T0042: 1 and L0748: 1.
HJBBE51	725948	8615	86 - 244	18367	Pro-1 to Arg-10, Pro-13 to Arg-19.	T0042: 1 and L0748: 1.
HJBBE07	954376	8616	325 - 471	18368	Pro-22 to Pro-29.	T0042: 1 and L0753: 1.
HJBD59	739633	8617	61 - 240	18369		L0439: 2 and T0042: 1.
HJBAP94	796835	8618	127 - 330	18370		L0591: 2, T0042: 1 and L0748: 1.
HJACI60	577525	8619	84 - 233	18371		T0041: 1, L0740: 1 and L0754: 1.
HJACH13	660943	8620	11 - 175	18372		L0439: 3, L0758: 3, L0779: 2, T0041: 1, L0771: 1, L0766: 1, L0803: 1, L0438: 1 and L0749: 1.
HJABZ11	967665	8621	242 - 448	18373	Val-1 to Ser-8.	L0759: 2 and T0041: 1.
HJABX39	709556	8622	189 - 656	18374	Pro-10 to Asn-16, Ser-63 to Glu-69, Ala-73 to Cys-79, Phe-83 to Thr-89, Trp-106 to Arg-120.	L0747: 2 and T0041: 1.
HJABQ75	567249	8623	498 - 836	18375	Ser-1 to Ala-10.	T0041: 1

HJABK64	783237	8624	1 - 567	18376	Leu-51 to His-71, Glu-79 to Gly-93.	L0740: 4 and T0041: 1.	
HJABK16	667399	8625	178 - 327	18377	Pro-10 to Glu-18, Leu-94 to Pro-100, Ser-106 to Asp-117, Thr-155 to Gly-162, Ser-169 to Val-178.	T0041: 1 and L0766: 1.	
HJABB93	791435	8626	40 - 303	18378	Leu-2 to Asn-11, Glu-24 to Ser-32, Gln-1 to Gly-7, Pro-43 to Glu-61, Cys-68 to Trp-76.	L0748: 2, T0041: 1 and L0756: 1.	
HJAAZ32	699727	8627	92 - 214	18379	Pro-8 to Ala-26.	T0041: 1, L0790: 1, L0748: 1, L0745: 1 and L0759: 1.	
HJAAV85	783412	8628	76 - 183	18380		T0041: 1	
HJAAR02	921105	8629	111 - 269	18381		T0041: 1 and L0784: 1.	
HJAAO07	954263	8630	1 - 186	18382		T0041: 1 and L0385: 1.	
HJAAC22	779388	8631	236 - 409	18383	Met-1 to Pro-7.	T0041: 1 and L0439: 1.	
HJAAA83	928841	8632	241 - 432	18384	Lys-15 to Ser-29, Pro-34 to Pro-53.	L0777: 2, T0041: 1 and L0601: 1.	
HILBQ12	971556	8633	247 - 360	18385		T0002: 1 and L0766: 1.	
HILBC32	906873	8634	3 - 281	18386		L0748: 2 and T0002: 1.	
HILBC17	667204	8635	25 - 285	18387		L0777: 2 and T0002: 1.	
HHEZZ74	934486	8636	542 - 1630	18388	Glu-42 to Ser-70.	L0779: 2, L0800: 1, L0662: 1, L0740: 1, L0596: 1 and H0543: 1.	
HHEZT12	969437	8637	1 - 177	18389	Gln-1 to Lys-8, Val-12 to Cys-17, Met-32 to Phe-38, Pro-40 to Tyr-45.	L0769: 1 and H0543: 1.	
HHEZO92	942859	8638	1 - 546	18390	Val-18 to Trp-24, Ala-64 to Asp-69, Asn-88 to Arg-96, Ser-131 to Gly-137, Gly-150 to Thr-155, Gly-166 to Gly-174.	AR089: 15, AR061: 9 L0639: 1, L0748: 1, L0751: 1 and H0543: 1.	

HHEZN61	973136	8639	429 - 689	18391	Cys-8 to Pro-15, Pro-17 to Leu-23.	H0543: 1	
HHEVE64	973232	8640	329 - 601	18392	Tyr-2 to Gln-7.	H0543: 1	
HHEX005	930794	8641	972 - 1679	18393	Asp-14 to Gln-25, Tyr-109 to Pro-115, Pro-122 to Gly-127, Thr-142 to Lys-147, Leu-149 to Tyr-164.	L0743: 2, L0750: 1, L0759: 1 and H0543: 1.	
HHEWX08	974405	8642	271 - 474	18394	Ser-51 to Pro-60.	H0543: 1	
HHEWX06	933879	8643	77 - 172	18395	Thr-18 to Ile-23.	L0785: 1, L0748: 1 and H0543: 1.	
HHEWT49	973142	8644	109 - 333	18396	Ser-23 to Ala-32, Gln-45 to Phe-52.	H0543: 1	
HHEWS01	914746	8645	241 - 414	18397		L0749: 1 and H0543: 1.	
HHEWQ10	963039	8646	2 - 121	18398	Gly-1 to Gly-6.	L0748: 1, L0749: 1 and H0543: 1.	
HHEWM53	973150	8647	170 - 382	18399	Leu-23 to Ser-35, Pro-66 to Ala-71.	H0543: 1	
HHEWG06	933874	8648	176 - 310	18400	Thr-13 to Phe-18, Asp-22 to Gly-29.	L0748: 1 and H0543: 1.	
HHEVZ06	933891	8649	2 - 193	18401	Asn-10 to His-15.	L0748: 1 and H0543: 1.	
HHEUJ76	906956	8650	544 - 227	18402		L0439: 1 and H0543: 1.	
HHEUP68	973215	8651	308 - 622	18403	Glu-27 to Asp-33, Glu-44 to Leu-51, Thr-59 to Pro-74.	H0543: 1	
HHEUL05	931045	8652	376 - 483	18404	Leu-1 to Ser-6.	L0438: 1 and H0543: 1.	
HHEUD79	774157	8653	3 - 230	18405	Asn-50 to Gly-56.	L0754: 1, L0756: 1 and H0543: 1.	
HHETR81	836730	8654	2 - 718	18406	Gly-1 to Ser-6, Pro-8 to Lys-16, Arg-67 to Cys-84, His-99 to Tyr-107, Met-133 to Cys-138, Pro-164 to Lys-170, Thr-172 to Lys-178.	L0766: 1 and H0543: 1.	
HHETP07	952217	8655	209 - 364	18407	Gly-32 to Phe-39.	L0608: 1 and H0543: 1.	

HHETN89	786361	8656	562 - 687	18408	Glu-11 to Gly-16.	L0747: 1 and H0543: 1.	
HHETN03	923009	8657	306 - 485	18409	Arg-55 to His-60.	L0659: 1 and H0543: 1.	
HHETK38	973120	8658	112 - 369	18410	Arg-1 to Ala-10, Arg-37 to Ser-44, Ser-54 to Asn-61.	H0543: 1	
HHETH36	901275	8659	212 - 424	18411	Gln-1 to Asp-30.	AR050: 13, AR054: 11, AR051: 3	
HHESV83	780456	8660	3 - 122	18412	Glu-1 to Gly-9.	H0543: 1	
HHESV71	806332	8661	1 - 225	18413		H0543: 1	
HHESV93	791729	8662	281 - 436	18414		L0756: 2, L0742: 1 and H0543: 1.	
HHESQV46	718640	8663	2 - 286	18415	Lys-15 to Leu-27, Pro-29 to Trp-37, Lys-39 to Glu-54, Gly-61 to Ser-91.	L0766: 1, L0749: 1, L0755: 1 and H0543: 1.	
HHESQT07	952452	8664	1523 - 1738	18416	Gly-8 to Lys-18, Gly-22 to Thr-28, Gly-49 to Ser-54, Gln-56 to Phe-63, Glu-65 to Arg-72.	L0763: 1 and H0543: 1.	
HHESQ75	973104	8665	2 - 307	18417	Arg-15 to Arg-21, Leu-54 to Ser-62, Ser-73 to Phe-81, Glu-91 to Lys-102.	H0543: 1	
HHESQL50	723930	8666	215 - 469	18418		L0592: 1 and H0543: 1.	
HHESQ53	727812	8667	524 - 703	18419		L0754: 2 and H0543: 1.	
HHESQ22	723305	8668	215 - 370	18420	Thr-14 to Gly-23, Lys-19 to Phe-35.	L0764: 1, L0745: 1 and H0543: 1.	17q11 147557, 600881, 601954
HHESQ389	786603	8669	229 - 387	18421	Lys-19 to Tyr-28.	L0766: 1 and H0543: 1.	
HHESQ26	679505	8670	344 - 466	18422	Lys-31 to Val-40.	L0749: 1 and H0543: 1.	
HHESQ859	738866	8671	196 - 324	18423	Lys-1 to Glu-11.	L0439: 1 and H0543: 1.	
HHESQ323	675500	8672	26 - 157	18424		L0773: 1, L0748: 1 and H0543: 1.	
HHESPW95	588266	8673	2 - 181	18425	Ser-52 to Arg-58.	H0543: 1	
HHESPW40	588265	8674	152 - 298	18426		H0543: 1	

HHPEW11	966789	8675	161 - 322	18427			H0543: 1	
HHPEPT05	912266	8676	2104 - 2349	18428		Lys-25 to Gln-34.	L0439: 1 and H0543: 1.	
	971711	9721	350 - 174	19473				
	971712	9722	307 - 414	19474				
	971713	9723	425 - 180	19475		Lys-25 to Gln-34.		
	971714	9724	288 - 61	19476		Phe-23 to Gln-48.		
						Lys-56 to Gly-61.		
HHPEPT03	923410	8677	41 - 355	18429		Ser-7 to Ser-14.	H0543: 1	
HHPEPT01	588241	8678	1 - 249	18430		Leu-53 to Trp-64.	L0752: 1 and H0543: 1.	
HHPEPT09	588235	8679	279 - 386	18431			H0543: 1	
HHPEPT02	877268	8680	179 - 361	18432		Glu-38 to Asn-44.	L0439: 2, L0777: 2, L0394: 1, L0438: 1, L0744: 1, L0754: 1, L0779: 1, L0753: 1, L0759: 1 and H0543: 1.	
HHPEPT05	925436	8681	274 - 474	18433		Phe-7 to Asn-14.	L0748: 1, L0747: 1 and H0543: 1.	
HHPEPT21	956241	8682	217 - 357	18434			L0803: 1 and H0543: 1.	
HHPEPT08	588155	8683	210 - 365	18435		Gln-19 to Asp-27.	L0755: 1 and H0543: 1.	
HHPEPT03	744995	8684	11 - 313	18436			L0748: 3 and H0543: 1.	
HHPEPT02	919775	8685	206 - 373	18437		Ile-7 to Cys-13.	L0386: 1 and H0543: 1.	
HHPEPT01	887661	8686	1 - 228	18438		Gln-26 to Lys-38, Ser-55 to Gln-63.	AR050: 71, AR054: 58, AR051: 53 H0543: 1	
HHPEPT08	959262	8687	68 - 259	18439		Thr-44 to Pro-55.	L0748: 2 and H0543: 1.	
HHPEPT21	858290	8688	2 - 310	18440		Pro-44 to Ser-51.	L0763: 1 and H0543: 1.	
HHPEPT29	690576	8689	1 - 306	18441		Asp-4 to Gln-13, Val-22 to Gly-31, Gln-50 to Asp-63, Arg-70 to Asp-75, Ser-88 to Gly-94.	L0750: 1 and H0543: 1.	
HHPEPT03	728111	8690	196 - 486	18442		His-54 to Ala-59, Ser-64 to Asn-70.	L0439: 1 and H0543: 1.	
HHPEPT01	757844	8691	142 - 387	18443		Leu-70 to Ser-82.	L0747: 1 and H0543: 1.	
HHPEPT06	586737	8692	2 - 364	18444		Pro-14 to Ala-29, Gln-50 to Thr-55.	AR050: 326, AR054: 257, AR051: 188 H0543: 1	

HHMW78	773507	8693	738 - 541	18445	Gln-42 to Met-64.	L0766: 1 and H0543: 1. L0748: 2 and H0543: 1. H0543: 1		
HHMW01	916281	8694	3 - 161	18446				
HHMQ68	752326	8695	22 - 123	18447				
HHMQ48	493733	8696	287 - 111	18448		AR050: 99, AR054: 97, AR051: 82 H0543: 1		
	839526	9725	1 - 162	19477	Pro-22 to Gln-33.			
	887668	9726	1 - 216	19478	Thr-33 to Gly-40, Pro-59 to Leu-64, Thr-66 to Lys-72.			
HHMN37	708468	8697	2 - 217	18449	Tyr-1 to Ser-11.	H0543: 1		
HHMK77	772115	8698	3 - 104	18450	Thr-6 to Asn-11, Thr-24 to Lys-34.	H0543: 1		
HHMK26	681595	8699	120 - 470	18451	Pro-38 to Pro-44, Gln-65 to Ala-73.	H0543: 1		
HHMJ91	789443	8700	233 - 445	18452	Lys-25 to Lys-34.	L0747: 4, L0439: 1, L0362: 6p21.3-p21.2 1 and H0543: 1.	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601690, 601868, 602280, 602475	
HHMI69	755006	8701	371 - 174	18453	Pro-2 to Lys-12.	H0543: 1		
HHMI56	469030	8702	257 - 66	18454	Gln-1 to Lys-13, Asp-54 to Asn-62.	H0543: 1		
HHMI09	625459	8703	1 - 174	18455	Ser-27 to Gly-34, Ser-49 to Gln-54.	H0543: 1		
HHMG02	917366	8704	325 - 122	18456		L0769: 1 and H0543: 1.		
HHMG01	916297	8705	121 - 270	18457	Gln-23 to Val-33.	H0543: 1		

HHMD56	733353	8706	2 - 292		Gly-44 to His-50. Leu-12 to Ser-17.	18458	L0766: 1, L0748: 1 and H0543: 1.	
HHMC41	927255	8707	269 - 42		Val-14 to Gln-19.	18459	L0747: 2, L0753: 2, L0731: 2, L0750: 1 and H0543: 1.	
HHMC10	969380	8708	309 - 596		Asn-1 to Glu-7, Ile-70 to Trp-82.	18460	AR050: 98, AR054: 85, AR051: 82, AR089: 28, AR061: 3 H0543: 1	
HHMA35	467295	8709	390 - 623		Thr-1 to Lys-9, Gln-60 to Pro-65.	18461	L0748: 1 and H0543: 1.	
HHMA07	953200	8710	190 - 369			18462	L0439: 2, L0804: 1, L0777: 1, L0731: 1 and H0543: 1.	
HHLA35	878217	8711	25 - 462		Phe-62 to Arg-67, Gln-92 to Leu-104.	18463	AR089: 1, AR061: 0 H0542: 1	
HHKZ12	878267	8712	9 - 395		Phe-62 to Arg-67, Gln-92 to Leu-104.	18464	AR089: 1, AR061: 0 H0542: 1	
HHK170	935092	8713	39 - 215		Phe-1 to Ser-8, Glu-45 to Met-53.	18465	L0754: 1, L0747: 1 and H0542: 1.	
HHJR35	878223	8714	1 - 249		Ser-16 to Gln-22.	18466	L0745: 2 and H0542: 1.	
HHHK04	925717	8715	1 - 621		Cys-12 to Gly-19, Gly-28 to Leu-35, Lys-37 to His-42.	18467	L0777: 5 and H0542: 1.	
HHHG38	943785	8716	2 - 583			18468	AR061: 5, AR089: 4 L0779: 1, L0777: 1 and H0542: 1.	
HHGC05	930878	8717	124 - 258		Gln-10 to Arg-17, Pro-34 to Tyr-45.	18469	L0752: 1 and H0542: 1.	
HHFN76	767770	8718	1 - 267		Lys-1 to Lys-8, Arg-22 to Leu-27.	18470	L0748: 2 and H0542: 1.	
HHFM41	711954	8719	580 - 738		Arg-1 to Arg-20, Tyr-31 to His-36.	18471	L0586: 1 and H0542: 1.	
HHFY63	744592	8720	400 - 537			18472	L0759: 1 and H0542: 1.	
HHDN70	757106	8721	1 - 390		Thr-63 to Phe-68, Asp-78 to Pro-85.	18473	L0593: 1 and H0542: 1.	
HHEDN51	734118	8722	205 - 354		Gly-15 to Leu-21.	18474	H0542: 1	
HHEDN49	588136	8723	274 - 396			18475	L0369: 1 and H0542: 1.	
HHED154	588129	8724	76 - 276			18476	L0749: 1 and H0542: 1.	

HHEDB30	692086	8725	100 - 429	18477	Arg-1 to Gly-9, Gly-12 to Asn-21, Gly-32 to Pro-38.	L0750: 1 and H0542: 1.	
HHECT42	588098	8726	186 - 386	18478	Glu-13 to Glu-18, Pro-36 to Glu-59.	L0594: 2 and H0542: 1.	
HHCEM62	934414	8727	148 - 330	18479		L0779: 2, L0596: 1 and H0542: 1.	
HHCEA10	973228	8728	66 - 257	18480	Arg-35 to Gly-41.	H0542: 1	
HHBEQ68	752956	8729	3 - 200	18481	Ala-1 to Ala-6, Cys-34 to Gly-42, Cys-56 to Pro-61.	H0542: 1	
HHBEQ59	739216	8730	343 - 140	18482		H0542: 1	
HHBEBO4	615127	8731	277 - 447	18483	Gln-28 to Leu-33.	H0542: 1	
HHBEBM89	786088	8732	44 - 253	18484	Gln-44 to Leu-50, Tyr-52 to Lys-59.	H0542: 1	231680, 276700
HHBEA53	728087	8733	115 - 294	18485		H0542: 1	
HHBEJ08	858429	8734	163 - 435	18486		L0766: 2 and H0542: 1.	
HHBEBB80	775424	8735	209 - 36	18487	Pro-15 to Arg-27, Pro-38 to Lys-51.	H0542: 1	
HHBEBB22	858418	8736	85 - 300	18488	His-3 to Arg-9, Pro-15 to Glu-26, Ser-48 to Gly-61.	H0542: 1	
HHBEBA86	785413	8737	1 - 138	18489	Pro-23 to Pro-34.	L0752: 1, L0731: 1, L0605: 1 and H0542: 1.	
HHBEAL37	491205	8738	464 - 240	18490		H0542: 1	
	858421	9727	1 - 303	19479			
	858425	9728	100 - 261	19480			
HHBEA78	773538	8739	2 - 313	18491	Cys-10 to Leu-16. Leu-7 to Cys-14, Glu-22 to Glu-36, Gln-57 to Lys-63, Asp-85 to Leu-97.	L0361: 2 and H0542: 1.	7q21-q22 116860, 126650, 126650, 129900, 133170, 154276, 173360, 173360, 602136, 602136, 602136, 602447
HHBEAF06	935355	8740	169 - 381	18492	Val-3 to Leu-8.	L0518: 4, L0599: 1 and H0542: 1.	
HHBEAD08	959305	8741	536 - 736	18493	Ser-12 to Phe-18.	L0794: 4, L0651: 1 and	

HHEAC20	668948	8742	1 - 459	18494	Ser-16 to Gly-25, Asp-33 to Asn-42, Cys-72 to Ser-85, Glu-98 to Glu-106, Glu-114 to Gly-130.	H0542: 1. H0542: 1		
HHEAA02	932265	8743	26 - 631	18495	Asn-1 to Gly-19, Ala-24 to Arg-30, Phe-33 to Arg-69, Glu-104 to Ser-110, Ser-116 to Thr-123.	L0593: 2 and H0542: 1.		
HFSBE12	970629	8744	132 - 317	18496		H0057: 1		
HFSBB12	971571	8745	424 - 218	18497		H0057: 1 and L0779: 1.		
HFSBB06	960835	8746	326 - 180	18498	Pro-14 to Ala-19.	L0766: 2 and H0057: 1.		
HFSAZ51	725973	8747	453 - 316	18499		L0749: 3, L0748: 2 and H0057: 1.		
HFSAX30	693419	8748	379 - 173	18500		H0057: 1 and L0756: 1.		
HFSAW27	684668	8749	132 - 1	18501		L0794: 2, H0057: 1, L0758: 1 and L0581: 1.		
HFSAU89	785904	8750	444 - 238	18502	Thr-1 to Ala-7.	H0057: 1 and L0748: 1.		
HFSAU84	781861	8751	105 - 1	18503	Leu-16 to Cys-22.	H0057: 1 and L0749: 1.		
HFSAT96	504394	8752	239 - 60	18504	His-3 to Asp-15.	H0057: 1 and L0748: 1.		
HFSAT48	720843	8753	465 - 331	18505	Cys-4 to Phe-10, Lys-40 to His-45.	L0666: 2, L0747: 2, L0731: 2, H0057: 1, L0804: 1, L0791: 1, L0779: 1 and L0780: 1.		
HFSAS86	785851	8754	196 - 107	18506	Tyr-5 to Ser-11, Phe-13 to Asp-23.	L0777: 2, H0057: 1 and L0754: 1.	6p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
HFSAR68	675246	8755	398 - 207	18507	His-1 to Ser-25, Asp-32 to Lys-44.	H0057: 1		
HFSAP25	826790 677463	9729 8756	140 - 319 344 - 249	19481 18508	Leu-4 to Ser-10, Thr-19 to Asn-24.	H0057: 1 and L0748: 1.		
HFSAK31	504424	8757	185 - 60	18509	Gln-18 to Tyr-31.	H0057: 1		

HFSAK14	504431	8758	352 - 251	18510	Pro-5 to Ser-14.	L0748: 2 and H0057: 1.	
	504432	9730	72 - 209	19482	Lys-1 to Leu-9.		
HFSAl68	753858	8759	319 - 209	18511		L0748: 2 and H0057: 1.	
HFSAH34	526472	8760	697 - 524	18512		H0057: 1, L0775: 1, L0439: 1, L0740: 1 and L0747: 1.	
HFSAG03	960973	8761	496 - 320	18513	Glu-33 to Thr-45, Arg-50 to Ser-59.	AR089: 18, AR061: 11, H0057: 1, L0520: 1 and L0389: 1.	
HFSAF33	728328	8762	314 - 96	18514		H0057: 1 and L0588: 1.	
HEOQI52	850966	8763	21 - 323	18515		H0457: 1, L0521: 1, L0766: 1 and L0581: 1.	
HEOPY91	933173	8764	132 - 314	18516	Ala-21 to Ala-34, Ser-38 to Gln-50.	H0457: 1 and L0366: 1.	
HEOAA49	942561	8765	1 - 576	18517	Leu-42 to Asp-50, Pro-94 to Ala-100, Ser-169 to Gly-174.	AR089: 6, AR061: 2, H0457: 1	
HEONX61	741864	8766	2 - 235	18518		H0457: 1 and L0748: 1.	
HEONO64	746660	8767	158 - 427	18519		L0748: 3 and H0457: 1.	
HEONO59	741361	8768	325 - 756	18520		AR089: 5, AR061: 3, H0457: 1 and L0752: 1.	
HEONN02	840210	8769	64 - 225	18521		H0457: 1 and L0740: 1.	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300, 601071, 601771, 602134
HEONL19	575884	8770	170 - 325	18522		H0457: 1	
HEONL09	961147	8771	3 - 155	18523	Glu-30 to Lys-50.	H0457: 1	
HEONL06	935516	8772	244 - 414	18524		H0457: 1	
HEONK37	707505	8773	62 - 313	18525	Ser-1 to Asn-9.	L0754: 2 and H0457: 1.	
HEONK10	964757	8774	90 - 206	18526		H0457: 1 and L0747: 1.	
HEONJ18	575888	8775	30 - 338	18527	Arg-10 to Asp-15, Gly-33 to Gln-40, Ser-42 to Cys-49, Arg-60 to Asn-66.	H0457: 1	

HEONI92	792772	8776	330 - 602	18528	Gln-81 to Ala-87.	H0457: 1 and L0603: 1.
HEONX03	922962	8777	361 - 552	18529	Asp-1 to Ser-9.	H0457: 1
HEONX01	913683	8778	2 - 559	18530	Val-8 to Arg-18, Glu-40 to His-46, Pro-62 to Cys-69, Ser-105 to Ser-115, Pro-124 to Pro-129, Pro-139 to Ser-145, Ser-163 to Ser-169.	H0457: 1
HEONM61	506231	8779	3 - 326	18531	Pro-51 to Ser-65.	H0457: 1
HEONQ68	753075	8780	96 - 218	18532	Lys-1 to Phe-11.	H0457: 1 and L0599: 1.
HEONQ04	931032	8781	2 - 172	18533		L0756: 2 and H0457: 1.
HEOML91	667931	8782	63 - 290	18534		H0457: 1
HEOML76	575927	8783	93 - 224	18535	His-7 to Gln-12, Pro-14 to Lys-21.	H0457: 1
HEOMH63	745146	8784	80 - 256	18536		H0457: 1 and L0745: 1.
HEICC56	733383	8785	2 - 100	18537	Pro-1 to Gly-9, Arg-23 to Gln-33.	S0140: 1
HEIBB84	781994	8786	2 - 406	18538		L0745: 2 and S0140: 1.
HEIBB31	697987	8787	2 - 142	18539	Leu-29 to Ser-35.	S0140: 1 and L0777: 1.
HEIBA15	888667	8788	197 - 427	18540		AR050: 12, AR051: 10, AR054: 10
HEIAX24	677177	8789	181 - 360	18541	Leu-7 to Gly-12, Glu-23 to Cys-29.	S0140: 1
HEIAX11	967772	8790	2 - 289	18542	Thr-47 to Asn-55.	S0140: 1 and L0640: 1.
HEIAU39	861503	8791	1 - 366	18543	Lys-1 to Ser-7, Phe-31 to Arg-43.	L0534: 1, S0140: 1, L0794: 1, L0790: 1 and L0791: 1.
HEIAR07	953626	8792	186 - 410	18544	Ser-1 to Arg-14, Asp-27 to Gly-32, Gly-42 to Ala-48, Leu-65 to Ala-72.	S0140: 1 and L0592: 1.
HEIAJ39	705643	8793	61 - 402	18545		S0140: 1 and L0766: 1.
HEIAI86	785080	8794	34 - 135	18546	Ser-1 to Gly-19.	L0361: 2 and S0140: 1.
HEIAD76	574163	8795	2 - 169	18547	Leu-11 to Gln-21.	S0140: 1

HEIAC62	745672	8796	30 - 176	18548	Gln-38 to Gly-45.	S0140: 1	
HDTM127	851806	8797	316 - 495	18549		H0486: 1 and L0589: 1.	
HDTL105	928253	8798	1 - 285	18550	Thr-1 to Met-6, Thr-8 to Asp-15, Thr-22 to Gln-27, His-36 to Val-44, Leu-55 to Asp-75, Ser-80 to Asp-95.	L0766: 3, L0754: 2, L0758: 2, H0486: 1 and L0748: 1.	
HDTLE28	851830	8799	2 - 172	18551	Phe-27 to Lys-34.	H0486: 1 and L0631: 1.	
HDTLB90	969209	8800	293 - 733	18552	Glu-24 to Ser-35.	L0753: 2, H0486: 1, L0774: 1 and L0749: 1.	
HDTKX61	806340	8801	105 - 521	18553	Pro-32 to Ser-46, Asn-58 to Pro-76.	H0486: 1 and L0747: 1.	
HDTIP10	963456	8802	293 - 469	18554	Lys-19 to Arg-25, Phe-27 to Phe-33, Pro-38 to Lys-44, Ser-49 to Asp-56.	H0486: 1, L0648: 1 and L0755: 1.	
HDTIF29	887186	8803	3 - 299	18555	Pro-15 to Gln-30, Pro-45 to Ala-50, Val-62 to Trp-67, Gln-79 to His-99.	AR054: 25, AR050: 21, AR051: 11 H0486: 1, L0779: 1 and L0777: 1.	
HDTJF05	931977	8804	10 - 486	18556	Pro-6 to Pro-18, Ala-35 to His-42, Gly-51 to Ser-58.	L0717: 1 and H0486: 1.	
HDTIO74	933606	8805	3 - 239	18557	Ile-37 to Arg-42.	AR061: 3, AR089: 1 H0486: 1 and L0748: 1.	
HDTIO16	934151	8806	2 - 673	18558	Val-14 to Arg-20, Arg-28 to Gln-33, Arg-106 to Trp-111.	AR089: 31, AR061: 2 H0486: 1	
HDTIG62	851951	8807	3 - 263	18559	Cys-65 to Gly-70.	L0766: 3, H0486: 1, L0749: 1 and L0779: 1.	
HDTIA48	851944	8808	2 - 271	18560	Pro-1 to Asp-20, Glu-25 to Pro-32, Asp-64 to Lys-72, Glu-85 to Leu-90.	H0486: 1 and L0779: 1.	
HDTIU79	774217	8809	83 - 385	18561	Thr-17 to Arg-41.	L0757: 2 and H0486: 1.	

HDTHS05	926048	8810	462 - 896	18562	Arg-49 to Cys-57. Phe-42 to Gly-57, Ala-60 to Ser-73, Pro-91 to Gly-101, Lys-108 to Gln-116.	H0486: 1 and L0777: 1.	
HDTHP45	841796	8811	23 - 160	18563	Glu-8 to Ser-16.	H0486: 1	
HDTHI02	918728	8812	120 - 266	18564	Ser-29 to Lys-35.	L0759: 3 and H0486: 1.	
HDTHG69	754464	8813	70 - 234	18565		H0486: 1 and L0748: 1.	
HDTHI32	851964	8814	230 - 490	18566		L0790: 2, L0749: 2, H0486: 1 and L0363: 1.	
HDTHA77	771334	8815	458 - 312	18567		L0748: 2, H0486: 1, L0743: 1 and L0731: 1.	
HDTHG62	742828	8816	22 - 180	18568		L0748: 2 and H0486: 1.	
HDTHG31	697539	8817	3 - 380	18569		H0486: 1 and L0747: 1.	
HDTHI10	963966	8818	140 - 3	18570	Leu-10 to Gln-20.	L0779: 2 and H0486: 1.	
HDTHG27	682687	8819	313 - 429	18571		H0486: 1 and L0748: 1.	
HDTHX46	915075	8820	265 - 501	18572		H0486: 1 and L0748: 1.	
HDTHI42	713399	8821	259 - 474	18573		H0486: 1 and L0766: 1.	
HDTHR93	792077	8822	38 - 298	18574	Glu-39 to Lys-49.	H0486: 1 and L0439: 1.	
HDTHN38	706752	8823	205 - 408	18575	Ser-10 to Tyr-17.	H0486: 1, L0471: 1, L0745: 1 and L0756: 1.	
HDTHI27	682705	8824	92 - 382	18576		L0803: 6, L0805: 2, L0439: 2, H0486: 1, L0809: 1, L0779: 1 and L0777: 1.	181430, 217300, 600698, 600698, 600698, 600698, 600808, 602116
HDTHG15	913812	8825	40 - 333	18577	Ile-8 to Phe-15, Glu-27 to Met-32, Asp-63 to Trp-72.	L0361: 2, H0486: 1, L0766: 1 and L0439: 1.	
HDTHI62	587822	8826	111 - 332	18578		H0486: 1, L0745: 1 and L0746: 1.	
HDTHI57	872215	8827	1 - 429	18579	Gly-1 to His-9, Ala-33 to Pro-39.	L0741: 2 and H0486: 1.	
HDTHS89	799881	8828	120 - 233	18580		H0486: 1	
HDTHS44	799863	8829	138 - 266	18581	Lys-8 to Pro-13.	H0486: 1	
HDTHP20	883680	8830	1 - 384	18582	Leu-60 to His-67.	L0483: 2 and H0486: 1.	180105, 190900, 222800, 246900

HD/TFD02	919572	8831	18583	Pro-10 to Ser-20.	H0486: 1 and L0756: 1.	
HD/TFD15	851999	8832	18584	Thr-61 to Asn-69.	L0546: 4, H0486: 1 and L0779: 1.	
HD/TFD144	587742	8833	18585		L0746: 2, L0753: 2, H0486: 1, L0606: 1 and L0745: 1.	
HD/TFD89	799870	8834	18586	Gln-27 to Val-34.	H0486: 1	
HD/TFD88	615173	8835	18587	Arg-23 to Arg-29.	H0486: 1	
HD/TFD72	587710	8836	18588	Arg-40 to Pro-54.		
HD/TFD70	757088	8837	18589	Asn-21 to Arg-37.	AR089: 159, AR061: 142	113721, 247200,
HD/TFD67	754739	8838	18590	Glu-1 to His-9.	H0486: 1	600059, 601545
HD/TFD15	668754	8839	18591	Ala-11 to Thr-19.	H0486: 1	
HD/TFD74	799868	8840	18592	Leu-2 to Lys-8.	H0486: 1	
				Ala-19 to Gly-35.		
				Pro-37 to Asn-45.		
				Lys-50 to Gln-56.		
HD/TFD64	799871	8841	18593		H0486: 1	
HD/TFD38	706741	8842	18594	Ala-26 to Ser-36.	L0748: 2 and H0486: 1.	6026-q27
						100678, 147280,
						152200, 167000,
						173350, 173350,
						173350, 180020,
						600320, 600883,
						602544
HD/TFD30	692063	8843	18595		H0486: 1	
HD/TFD37	587699	8844	18596	Glu-1 to Ser-10.	H0486: 1, L0471: 1, L0745: 1 and L0777: 1.	
HD/TFD21	587700	8845	18597	Ser-24 to Ala-29.	L0747: 2, H0486: 1 and L0766: 1.	
				Ile-15 to Asn-24.		
				Lys-61 to Lys-66.		
HD/TFD55	934923	8846	18598	Ser-26 to Ser-32.	H0486: 1 and L0766: 1.	
HD/TFD01	916455	8847	18599		H0486: 1, L0506: 1, L0508: 1, L0493: 1 and L0758: 1.	
HD/TFB23	842950	8848	18600	Arg-1 to Gly-15.	H0486: 1	

HDTBV06	935393	8849	37 - 198	18601				H0486: 1 and L0809: 1.
HDTBU73	764410	8850	538 - 720	18602	Gly-24 to Ile-30.			H0486: 1, L0748: 1 and L0747: 1.
HDTBT35	706730	8851	1 - 306	18603				L0521: 2, H0486: 1, L0740: 1, L0756: 1 and L0779: 1.
HDTBS91	789425	8852	2 - 520	18604	Glu-1 to Leu-18.			H0486: 1 and L0439: 1.
HDTBS45	591589	8853	289 - 2	18605				L0749: 2, H0486: 1, L0637: 1 and L0748: 1.
HDTBR39	705350	8854	452 - 742	18606				H0486: 1 and L0758: 1.
HDTBP84	783024	8855	78 - 275	18607	Leu-1 to Ala-6.			H0486: 1 and L0750: 1.
HDTBM53	727526	8856	25 - 150	18608				H0486: 1
HDTBM31	697918	8857	136 - 372	18609	Glu-18 to Cys-23, Asp-74 to Ser-79.			L0750: 2 and H0486: 1.
HDTBK62	742603	8858	45 - 221	18610	His-26 to Cys-41, Lys-54 to Lys-59.			H0486: 1
HDTBG80	916167	8859	173 - 478	18611	Lys-34 to Arg-41.			H0486: 1 and L0362: 1.
HDTBD67	899636	8860	252 - 1175	18612	Pro-20 to Pro-29, Phe-42 to Val-52, Leu-106 to Pro-113, Arg-134 to Gly-139, Ala-207 to Asn-213, Thr-227 to Phe-239.			AR054: 32, AR051: 10, AR089: 3, AR061: 2, AR050: 2, H0486: 1
	902517	9731	2 - 838	19483	Phe-13 to Val-23, Leu-77 to Pro-84, Arg-105 to Gly-110, Ala-178 to Asn-184, Thr-198 to Phe-210.			
HDTAU14	658429	8861	66 - 176	18613				H0486: 1 and L0745: 1.
HDTAT80	911928	8862	105 - 281	18614	Gly-44 to Thr-50.			H0486: 1
HDTAP53	728216	8863	234 - 329	18615				H0486: 1 and L0748: 1.
HDTAH15	840327	8864	180 - 476	18616				H0486: 1, L0747: 1 and L0731: 1.
HDTAE60	810259	8865	36 - 167	18617	Val-32 to Glu-37.			H0486: 1 and L0748: 1.
HDTAE44	799902	8866	260 - 397	18618				H0486: 1 and L0438: 1.
HDTAE29	780991	8867	99 - 332	18619				H0486: 1
HDTAE16	661997	8868	206 - 439	18620	Ala-12 to Ser-17.			H0486: 1

HD7AE09	799874	8869	153 - 305	18621	Ser-24 to Ser-30, Pro-73 to His-78.	H0486: 1	Xq13.1-q13.3	304040, 305100, 305450, 309605, 312760, 314250, 314580
HD7AB89	786039	8870	113 - 310	18622	Arg-3 to Asp-9,	H0486: 1 and L0748: 1.		
HD7AA31	937609	8871	1100 - 1432	18623	Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.	AR089: 14, AR061: 4 H0486: 1 and L0779: 1.		
	941948	9732	1100 - 1432	19484	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.			
HDRAC08	963325	8872	224 - 33	18624	Ser-6 to Ser-11, Thr-55 to Pro-60.	H0537: 1 and L0439: 1.		
HDQPR06	936658	8873	2 - 202	18625	Ser-8 to Gln-20, Gln-26 to Gln-36.	H0522: 1, L0751: 1, L0777: 1 and L0594: 1.		
HDQPP57	926953	8874	64 - 180	18626	Lys-34 to Ser-39.	H0522: 1 and L0748: 1.		
HDQI08	958252	8875	338 - 469	18627	Arg-8 to Ile-13.	H0521: 1 and L0749: 1.		
HDQHU84	782202	8876	1 - 171	18628	Pro-15 to Gly-25, Gly-29 to Trp-41.	L0748: 3 and H0521: 1. L0766: 1 and H0521: 1.		
HDQHO94	793387	8877	1 - 126	18629				
HDQHI04	926978	8878	3 - 614	18630	Ser-8 to Ser-21, Thr-46 to Asp-55, Lys-91 to Gly-97, Gln-103 to Asp-115, Gln-125 to Ala-135, Pro-137 to Ser-143, Lys-154 to Phe-163.	L0370: 1 and H0521: 1.		
HDQGW10	963512	8879	46 - 267	18631	Ser-1 to Trp-9, Gln-35 to Lys-40.	L0367: 1, H0521: 1 and L0439: 1.		
HDQGF78	772952	8880	352 - 480	18632	Gln-30 to Pro-35.	H0521: 1 and L0748: 1.		
HDQFT10	852587	8881	121 - 324	18633	Ser-63 to Lys-68.	L0375: 1 and H0521: 1.		
HDQFT39	852593	8882	197 - 469	18634	Gly-74 to Thr-80.	L0766: 1 and H0521: 1.		

HDQEF93	791724	8883	870 - 1046	18635			L0439: 4, H0521: 1 and L0740: 1.
HDQEX85	875473	8884	2 - 409	18636			H0521: 1, L0748: 1 and L0749: 1.
HDQEW83	780551	8885	2 - 283	18637			L0731: 2 and H0521: 1.
HDQEW11	966126	8886	190 - 2	18638	Ser-5 to Thr-11, Cys-21 to Gly-26, Arg-51 to Gly-63.		L0519: 1 and H0521: 1.
HDQET29	852618	8887	77 - 274	18639	Gly-11 to Lys-22.		H0521: 1 and L0748: 1.
HDQEQ10	963533	8888	380 - 550	18640	Pro-41 to Thr-48.		L0766: 2, L0545: 1 and H0521: 1.
HDQEI46	957666	8889	424 - 266	18641			
HDQEF93	791753	8890	121 - 369	18642	Gly-21 to Val-28.		H0521: 1 and L0748: 1.
HDQDX89	786323	8891	2 - 709	18643	Gly-16 to Glu-27, Asn-40 to Ser-54, Ser-71 to His-79, Ile-102 to Leu-107, Glu-114 to Gln-120, Gly-127 to Gly-137, Pro-160 to Lys-177, Glu-187 to Thr-199.		L0743: 3 and H0521: 1. L0740: 2 and H0521: 1.
HDQDT10	963482	8892	432 - 283	18644	Pro-4 to Asp-9.		H0521: 1, L0749: 1 and L0779: 1.
HDQDG73	761957	8893	209 - 418	18645	Thr-10 to Asn-15, Pro-31 to Pro-42, Pro-47 to Thr-52.		H0521: 1 and L0750: 1.
HDQDC74	764985	8894	136 - 270	18646	Tyr-21 to Ala-28.		H0521: 1 and L0588: 1.
HDPYO08	958454	8895	139 - 357	18647			L0384: 1, H0521: 1 and L0779: 1.
HDPXZ28	686188	8896	462 - 665	18648			L0794: 2, L0770: 1, L0638: 1, L0773: 1, L0804: 1, L0805: 1, H0521: 1, L0745: 1, L0755: 1 and L0731: 1.
HDPXW88	631353	8897	357 - 187	18649	Cys-3 to His-8, Pro-11 to Glu-21.		L0766: 1 and H0521: 1.
HDPXO03	923602	8898	375 - 521	18650	Lys-1 to Asn-9.		H0521: 1 and L0748: 1.

HDPXN01	915919	8899	69 - 230	18651	Ser-48 to Ser-53.	AR089: 9, AR061: 4 L0794: 5, L0439: 2, L0747: 2, H0521: 1, L0779: 1, L0777: 1 and L0594: 1.		
HDPXL71	760140	8900	27 - 275	18652	Ala-21 to Asp-30.	H0521: 1 and L0745: 1.		
HDPXD40	974493	8901	129 - 320	18653	Glu-5 to Cys-16.	H0521: 1		
HDPXD08	958826	8902	124 - 336	18654	Val-2 to Glu-10.	L0766: 1 and H0521: 1.		
HDPXC56	974490	8903	76 - 564	18655	Gln-62 to Arg-71.	H0521: 1		
HDPXB75	786320	8904	2 - 382	18656	Gln-2 to Leu-8, Thr-30 to Pro-41.	H0521: 1		
HDPWX53	727595	8905	2 - 301	18657	Glu-61 to Gly-66, Thr-75 to Gln-82.	H0521: 1		
HDPWT92	791223	8906	331 - 567	18658	Gly-1 to Ser-6, Ser-21 to Ser-37.	H0521: 1, L0748: 1 and L0756: 1.		
HDPWR03	923608	8907	261 - 28	18659	Met-20 to Arg-30, Pro-54 to Glu-65.	H0521: 1 and L0748: 1.		
HDPWN56	733129	8908	3 - 425	18660	Arg-24 to Asp-33, Pro-45 to Glu-55, Glu-81 to Gln-102, Leu-111 to Met-120.	H0521: 1 and L0743: 1.		
HDPWK75	793234	8909	36 - 299	18661	Pro-1 to Pro-10.	H0521: 1 and L0754: 1.	20q13.1	256540, 600281, 600281
HDPWH75	956201	8910	34 - 309	18662	Pro-32 to Pro-43.	L0748: 2 and H0521: 1.		
HDPVC01	915816	8911	323 - 595	18663		H0521: 1 and L0759: 1.		
HDPWU82	921279	8912	216 - 91	18664	Gln-22 to Asp-29, Pro-37 to Thr-42.	H0521: 1 and L0439: 1.		
HDPUV65	747646	8913	248 - 538	18665	Lys-10 to Pro-19, Ile-28 to Ala-33.	H0521: 1 and L0439: 1.		
HDPUV11	966558	8914	436 - 618	18666		L0439: 3, L0748: 2 and H0521: 1.		
HDPUR51	914406	8915	233 - 3	18667	Gly-12 to Asn-17, Ala-67 to Lys-77.	L0599: 2, L0766: 1, L0775: 1, L0776: 1, H0521: 1, L0749: 1, L0779: 1, L0777: 1, L0759: 1, L0480: 1 and		

HDPUN39	957580	8916	1819 - 1067	18668	Leu-18 to Ser-24, Pro-40 to Glu-51, Ala-81 to Glu-89.	L0596: 1. AR089: 2, AR061: 1 L0755: 2, L0662: 1 and H0521: 1. L0748: 2, L0749: 2, L0664: 1 and H0521: 1.		
HDPUI44	715971	8917	53 - 250	18669				
HDPD065	747206	8918	37 - 294	18670	Thr-72 to Lys-81.	H0521: 1 and L0608: 1.		
HDPD159	739068	8919	14 - 388	18671	Arg-8 to Gly-17.	H0521: 1 and L0581: 1.		
HDPDTE43	715038	8920	192 - 419	18672	Lys-22 to Ser-31.	H0521: 1 and L0599: 1.	3q25-q29	106165, 165500, 222900, 276902
HDPD58	735750	8921	298 - 462	18673		H0521: 1 and L0748: 1.		
HDPD593	973098	8922	103 - 330	18674	Trp-2 to Ser-9.	H0521: 1		
HDPD582	779614	8923	25 - 417	18675	Gln-7 to Gln-15, Arg-61 to Cys-75, Ser-82 to His-92.	L0749: 2 and H0521: 1.		
HDPD5L71	969286	8924	157 - 294	18676	Thr-18 to Gly-23, Val-27 to Gly-32.	L0648: 1, L0803: 1, L0774: 1, L0659: 1, L0665: 1, H0521: 1 and L0758: 1.	1q22-q24	104770, 107300, 107670, 110700, 131210, 136132, 145001, 146790, 159440, 159440, 159440, 173610, 186780, 191030, 191315, 600923, 601412, 601518, 601652, 602491
HDPD5K64	746370	8925	1 - 633	18677	Arg-13 to Ser-30, Thr-40 to Asp-52.	H0521: 1 and L0749: 1.		
HDPD5K53	727586	8926	1 - 474	18678	Leu-25 to Gln-32, Ile-48 to Glu-53, Glu-69 to Cys-78.	L0601: 2 and H0521: 1.		
HDPD5I13	656729	8927	257 - 394	18679		H0521: 1 and L0748: 1.		
HDPD5B10	961309	8928	1 - 444	18680	Met-14 to Pro-24, Lys-31 to Glu-36, His-70 to Gly-76.	AR089: 1, AR061: 0 L0665: 1 and H0521: 1.		
HDPD5A86	785293	8929	432 - 219	18681		H0521: 1 and L0439: 1.		
HDPD5W01	915993	8930	91 - 294	18682	Gly-1 to Ser-6,	H0521: 1 and L0731: 1.		

HDPRES89	887682	8931	3 - 341	18683	Gln-23 to Ser-38. Asn-54 to Lys-63, Thr-69 to Phe-74, Trp-98 to Ser-108.	AR050: 58, AR054: 55, AR051: 47 H0521: 1	
HDPRR24	914667	8932	111 - 410	18684	Asn-65 to Arg-71.	H0521: 1 and L0745: 1.	
HDPK07	948672	8933	12 - 158	18685	Arg-1 to Thr-11, Ser-19 to Leu-25.	L0766: 1, H0521: 1 and L0779: 1.	
HDPK04	909040	8934	3 - 419	18686	Lys-21 to His-27, Phe-44 to Arg-55, Lys-72 to Lys-80, Gln-88 to Thr-94.	AR089: 0, AR061: 0 H0521: 1 and L0758: 1.	
HDPRE41	712124	8935	378 - 232	18687	His-20 to Thr-25.	H0521: 1 and L0754: 1.	
HDPRA51	725103	8936	2 - 175	18688	Arg-27 to Ser-32.	H0521: 1	
HDPQV82	779421	8937	13 - 327	18689	Gly-5 to Gly-11, Lys-38 to Lys-43.	H0522: 1 and L0748: 1.	
HDPQR07	952337	8938	500 - 604	18690	Gln-42 to Asp-47, Gly-54 to Gly-61, Pro-67 to Asn-73, Lys-145 to Asn-151.	H0522: 1 and L0779: 1.	
HDPQ168	955006	8939	14 - 508	18691	Arg-12 to Arg-20, Phe-34 to Lys-45, Pro-65 to Asp-70.	L0752: 2, L0659: 1, H0522: 1 and L0779: 1.	
HDPQH06	934616	8940	66 - 275	18692		L0794: 1 and H0522: 1.	
HDPQF03	923120	8941	5 - 748	18693		AR054: 9, AR050: 7, AR051: 2 L0769: 1, H0522: 1, L0744: 1 and L0754: 1.	
HDPQC63	744461	8942	18 - 302	18694	Asn-16 to Arg-21, Arg-35 to Ile-41.	H0522: 1 and L0748: 1.	
HDPQA64	872237	8943	3 - 266	18695	Pro-6 to Arg-19, Pro-25 to Cys-30, Pro-33 to Arg-40.	H0522: 1 and L0596: 1.	
HDPPI29	690497	8944	138 - 1	18696	Ser-30 to Gly-45.	H0522: 1 and L0759: 1.	
HDPPIB17	662917	8945	1 - 387	18697	Pro-17 to Gly-34, Asp-59 to Val-72, His-77 to Asp-87.	H0522: 1 and L0740: 1.	

					Ser-107 to Thr-121.		
HDPOX03	923856	8946	320 - 132	18698	Asn-9 to Asn-15.	H0522: 1 and L0749: 1.	
HDPO178	773487	8947	223 - 456	18699	Ser-1 to Tyr-7. Tyr-19 to Val-25, Leu-30 to Thr-35, Ile-47 to Asn-56, Ile-68 to His-75.	L0753: 2, H0522: 1, L0740: 1 and L0750: 1.	
HDPOPO3	923843	8948	185 - 439	18700	Thr-10 to Tyr-15, Gly-66 to Ile-81.	H0522: 1 and L0756: 1.	
HDPOC02	919597	8949	344 - 631	18701	Arg-16 to Gly-22.	L0439: 2, H0522: 1, L0779: 1 and L0731: 1.	
HDPN173	764407	8950	1 - 228	18702	Val-1 to Ser-12, Ser-18 to Arg-23.	H0522: 1 and L0603: 1.	
HDPND09	607575	8951	323 - 165	18703	Arg-20 to Asp-25, Gly-37 to Val-47.	H0522: 1	
	874076	9733	308 - 18	19485	Pro-8 to Arg-13, Thr-39 to Gln-48.		
	897723	9734	425 - 291	19486	Gln-22 to Cys-28, Leu-40 to Lys-45.		
HDPMC22	674539	8952	407 - 715	18704	Gln-1 to Gln-6, Asp-11 to Gln-18, Pro-20 to Tyr-25, Pro-27 to Lys-38.	L0748: 6, L0749: 2, H0522: 1 and L0752: 1.	
HDPMV35	706647	8953	191 - 349	18705		H0522: 1 and L0752: 1.	
HDPMR81	493958	8954	422 - 189	18706	Ala-1 to Pro-11, Lys-18 to Leu-31, Met-59 to Arg-64.	H0522: 1	
	584265	9735	1 - 282	19487	Thr-2 to Gln-9, Ser-11 to Lys-16, Ile-65 to Arg-77.		
HDPMH51	725029	8955	3 - 224	18707	Asn-14 to Tyr-22, Lys-44 to Ser-50.	L0746: 3, H0522: 1 and L0748: 1.	
HDPMG46	934144	8956	274 - 2	18708		H0522: 1 and L0780: 1.	
HDPLV29	849526	8957	224 - 439	18709	Glu-35 to Tyr-46.	L0766: 2 and H0521: 1.	
HDPLU84	782061	8958	163 - 318	18710	Lys-9 to Gln-14, Thr-40 to Cys-49.	H0521: 1 and L0748: 1.	

HDPLT62	973945	8959	405 - 809	18711		AR089: 1, AR061: 0 H0521: 1	
HDPKI78	773469	8960	19 - 126	18712		H0521: 1 and L0749: 1.	
HDPKA03	923841	8961	267 - 407	18713		L0740: 4, L0777: 2, L0803: 1 and H0521: 1.	
HDPIX07	952966	8962	350 - 574	18714		L0769: 1, L0803: 1, H0521: 1 and L0758: 1.	
HDPIJP44	716466	8963	91 - 360	18715		L0803: 7, L0794: 5, L0804: 5, L0775: 3, L0789: 2, L0805: 1, L0776: 1, L0809: 1, H0521: 1, L0747: 1, L0779: 1 and L0758: 1.	
HDPIK23	48326	8964	2 - 355	18716		H0521: 1 and L0757: 1.	
HDPIB19	887886	8965	3 - 293	18717		AR050: 112, AR051: 76, AR054: 75 H0521: 1	
HDPIA07	953001	8966	46 - 243	18718		H0521: 1 and L0745: 1.	
HDPIW95	933240	8967	181 - 774	18719		L0779: 2, H0521: 1, L0745: 1 and L0758: 1.	
HDPIV34	703959	8968	328 - 489	18720		H0521: 1 and L0754: 1.	
HDPIQ24	771939	8969	141 - 485	18721		H0521: 1 and L0595: 1.	
HDPIPO6	935198	8970	444 - 569	18722		H0521: 1 and L0748: 1.	
HDPII73	764344	8971	34 - 213	18723		H0521: 1	
HDPILO1	916221	8972	206 - 343	18724		H0521: 1	
HDPIF78	881960	8973	130 - 360	18725		H0521: 1	
HDPIF66	750575	8974	51 - 443	18726		H0521: 1	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238,

HDPHF54	729441	8975	239 - 469	18727	Pro-7 to Thr-12, Thr-17 to Thr-26.	H0521: 1 and L0439: 1.	601846, 602216, 602477
HDPID88	415993	8976	2 - 241	18728	Ser-1 to Leu-17, Gln-22 to Gly-29, Cys-32 to Trp-39, Ser-45 to Ser-64.	H0521: 1	
HDPID53	728058	8977	222 - 401	18729	Ala-19 to Gln-26.	H0521: 1	
HDPID21	827350	8978	1 - 192	18730		H0521: 1	
HDPHF37	706622	8979	54 - 209	18731		H0521: 1	
HDPHA89	786078	8980	111 - 437	18732	Glu-12 to Gln-17, Lys-25 to His-35.	L0745: 2, H0521: 1, L0741: 1 and L0746: 1.	
HDPHA40	711126	8981	1 - 162	18733	Pro-4 to Arg-12, Leu-30 to Thr-36.	H0521: 1 and L0749: 1.	
HDPHA37	812336	8982	2 - 508	18734	Gln-14 to Gly-20, Pro-35 to Gly-42, Leu-55 to Pro-62, Gln-92 to Asp-104, Ser-130 to Lys-136, Lys-145 to Ala-153, His-155 to Thr-161.	H0521: 1	
HDPHA34	704036	8983	264 - 512	18735		H0521: 1 and L0748: 1.	
HDPGX15	660089	8984	43 - 315	18736		H0521: 1	
HDPGX10	964519	8985	419 - 550	18737		L0766: 1 and H0521: 1.	
HDPGX03	924010	8986	242 - 388	18738		H0521: 1	
HDPGT96	973363	8987	1 - 237	18739	His-20 to Asp-26.	H0521: 1	
HDPGS93	792256	8988	239 - 466	18740	Phe-21 to Gly-37, Leu-63 to Asn-76.	H0521: 1	
HDPGS45	921381	8989	24 - 236	18741		L0748: 3 and H0521: 1.	
HDPGS43	715232	8990	39 - 212	18742	Arg-15 to Pro-21, Gln-44 to Ala-57.	L0794: 1, L0766: 1, H0521: 1, L0750: 1, L0771: 1 and L0759: 1.	
HDPGS16	909833	8991	188 - 460	18743	Asp-40 to Leu-46, Phe-50 to Arg-61, Pro-76 to Asp-83.	AR061: 0, AR089: 0 H0521: 1 and L0758: 1.	

HDPGS01	916352	8992	58 - 204	18744	Pro-6 to Gly-13.	H0521: 1	
HDPGR44	468389	8993	1 - 225	18745	Gly-1 to Ile-10.	H0521: 1	
HDPGN15	394693	8994	195 - 389	18746	Pro-22 to Gly-27.	H0521: 1	
HDPGN13	416046	8995	1 - 147	18747	Pro-20 to His-25, Arg-55 to Cys-61.	H0521: 1	
HDPGN11	966923	8996	300 - 166	18748	Gly-27 to Asn-32, Gly-42 to Pro-49.	H0521: 1	
HDPGJ49	722903	8997	119 - 310	18749		L0766: 1 and H0521: 1.	
HDPGJ75	766618	8998	156 - 302	18750	Arg-18 to Gln-24.	H0521: 1	
HDPGJ74	765524	8999	87 - 209	18751	Pro-18 to Lys-35.	H0521: 1	
HDPGH73	764397	9000	2 - 118	18752	Glu-6 to Gly-11, Lys-18 to Ile-32.	H0521: 1	
HDPGG01	916389	9001	282 - 115	18753		H0521: 1 and L0604: 1.	
HDPGD28	879489	9002	223 - 441	18754	Phe-19 to Asp-28.	H0521: 1, L0748: 1 and L0749: 1.	
HDPFZ70	709684	9003	482 - 775	18755	Leu-40 to Gly-93.	AR054: 199, AR051: 196, AR050: 193, AR089: 22, AR061: 4 H0521: 1	
HDPFW02	872273	9736	289 - 522	19488			
HDPFS71	919306	9004	211 - 2	18756	Ala-60 to Gly-70.	H0521: 1	
HDPFS59	486744	9005	481 - 329	18757		H0521: 1	
HDPFP96	486737	9006	65 - 196	18758	Lys-38 to His-43.	H0521: 1	
	796360	9007	116 - 226	18759	Gly-1 to Lys-6, Phe-9 to Thr-17, Lys-27 to Thr-33.	H0521: 1 and L0581: 1.	
HDPFP71	760327	9008	374 - 655	18760	Thr-10 to Cys-17, His-39 to Gly-46, Arg-58 to Ser-71.	L0747: 2 and H0521: 1.	
HDPFP14	486765	9009	127 - 321	18761		H0521: 1	
	495698	9737	446 - 279	19489	Ser-18 to Thr-25, Pro-35 to Ser-40.		
HDPFN23	486738	9010	315 - 455	18762		H0521: 1	
	495721	9738	346 - 149	19490	Ala-1 to Gln-16, Pro-37 to Ala-45.		

HDPM28	486766	9011	1 - 243	18763	Pro-47 to Lys-54, Ser-5 to Ser-14, Ser-34 to Gly-45, Gly-51 to Cys-56.	H0521: 1	
HDPL52	495724 486739 495697	9739 9012 9740	477 - 223 43 - 198 195 - 1	19491 18764 19492	His-17 to Cys-22, Lys-1 to Lys-7, Pro-45 to Arg-54, Asp-60 to Pro-65.	H0521: 1	
HDPL58	783957	9013	229 - 74	18765	Ile-87 to Ile-94.	H0521: 1 and L0750: 1.	
HDPLD10	964521	9014	270 - 632	18766	Tyr-12 to Gly-17, Tyr-75 to Asp-81.	H0521: 1, L0777: 1 and L0759: 1.	
HDPLB03	936331	9015	326 - 607	18767	Thr-30 to Asn-35.	L0776: 1, H0521: 1 and L0748: 1.	
HDPLH08	959303	9016	155 - 352	18768		H0521: 1 and L0588: 1.	
HDPLD12	970592	9017	379 - 164	18769		L0770: 11, L0775: 1, L0787: 1, L0666: 1 and H0521: 1.	
HDPLC90	590161	9018	101 - 241	18770	Val-3 to Tyr-17.	H0521: 1	
HDPCY47	950991	9741	564 - 785	19493		H0521: 1 and L0750: 1.	
HDPCP89	775412	9019	2 - 358	18771	Ala-1 to Arg-6, Thr-30 to Ser-43.	H0521: 1	
HDPCP64	786075	9020	2 - 175	18772		H0521: 1	
HDPCP64	746527	9021	138 - 332	18773		H0521: 1	
HDPCP48	721620	9022	317 - 418	18774		H0521: 1	
HDPCP46	719014	9023	210 - 356	18775		H0521: 1	
HDPCP43	715227	9024	198 - 446	18776	Pro-1 to Asn-6, Asp-19 to Lys-35.	H0521: 1	
HDPCP16	416032	9025	263 - 421	18777		H0521: 1	
HDPCO12	852847	9026	80 - 310	18778		H0521: 1	
HDPCN88	416035	9027	219 - 365	18779	Lys-28 to Thr-33.	H0521: 1	
HDPCN73	764400	9028	1 - 138	18780		H0521: 1	
HDPCN33	416028	9029	169 - 351	18781		H0521: 1	
HDPCM66	852849	9030	50 - 472	18782	Thr-6 to Gly-11, Pro-29 to Met-40.	H0521: 1	114835, 132700, 172490, 600968

HDPCH62	454740	9031	137 - 382	18783	His-1 to Asn-12, Pro-14 to Pro-27, Asn-33 to Ser-39, Pro-41 to Asn-46, Pro-74 to Pro-82.	AR061: 159, AR089: 121 H0521: 1	1p34.1-p32	120550, 120570, 120575, 120950, 120960, 121800, 130500, 133200, 138140, 171760, 171760, 178300, 187040, 255800, 600101, 600650, 600650, 600722, 600722
HDPCH45	974424	9032	221 - 382	18784		H0521: 1		
HDPCH85	973314	9033	7 - 222	18785		H0521: 1		
HDPCH33	495711	9034	509 - 330	18786	Gly-3 to Asn-15.	H0521: 1		
	852850	9742	8 - 190	19494	Gln-29 to Tyr-45.			
	852872	9743	122 - 304	19495				
HDPCH67	878776	9035	3 - 299	18787	Glu-11 to Ala-20, Gly-74 to Pro-80.	H0521: 1 and L0747: 1.		
HDPBQ75	466645	9036	1 - 429	18788	Glu-22 to Asp-29, Asp-53 to Ser-63, Met-95 to Arg-104, Thr-115 to Asn-126.	H0521: 1 and L0600: 1.		
HDPBP64	746537	9037	3 - 218	18789	Ile-2 to Gln-7, Val-37 to Lys-44, Lys-58 to Ser-64.	H0521: 1 and L0439: 1.		
HDPB131	852885	9038	400 - 546	18790		H0521: 1 and L0751: 1.		
HDPBF15	852880	9039	189 - 28	18791	Thr-18 to Ile-37.	H0521: 1 and L0751: 1.		
HDPB85	783544	9040	3 - 224	18792	Cys-27 to Asn-41.	L0748: 4 and H0521: 1.		
HDPAX21	670893	9041	278 - 418	18793		H0521: 1 and L0599: 1.		
HDPAP46	719027	9042	103 - 291	18794	Glu-22 to Thr-27, Pro-38 to Thr-43, Lys-52 to Gln-57.	H0521: 1 and L0596: 1.		
HDPAP04	615193	9043	128 - 370	18795		H0521: 1 and L0748: 1.		
HDPAP068	972332	9044	1054 - 752	18796	Lys-28 to Ser-38, Arg-51 to Gly-64.	AR061: 30, AR089: 13 H0521: 1		
HDPAP064	746550	9045	305 - 457	18797		H0521: 1 and L0439: 1.	9q13-q21	190100, 200150, 229300, 229300,

HDPAN94	901123	9046	242 - 463	18798			AR050: 3, AR051: 2, AR054: 0 H0521: 1	600429, 600884, 600974, 600998, 602014
HDPKAK09	494170	9047	143 - 48	18799		Arg-3 to Gly-16.	H0521: 1	
HDPAL64	852903	9744	321 - 464	19496		Cys-38 to Pro-44, Glu-50 to Ser-56.	H0521: 1	
HDPAL64	881654	9048	46 - 324	18800				
HDPALH17	663779	9049	122 - 331	18801		His-57 to Glu-63.	L0748: 2, L0747: 2, H0521: 8q 1 and L0749: 1.	
HDPALF40	856391	9050	442 - 567	18802			L0599: 2 and H0521: 1.	
HDPAC90	787296	9051	1 - 216	18803			L0605: 2, H0521: 1, L0748: 1, L0745: 1 and L0747: 1.	
HDPAC78	773570	9052	109 - 213	18804			H0521: 1 and L0748: 1.	
HDPAB34	581900	9053	358 - 2	18805		Cys-72 to Thr-79, Thr-105 to Gly-119.	H0521: 1	
	959495	9745	2 - 169	19497				
	959496	9746	1 - 39	19498				
HDPAA80	775417	9054	89 - 310	18806			H0521: 1 and L0748: 1.	
HDPAA38	546575	9055	184 - 2	18807		Lys-51 to Gly-61.	H0521: 1	
HDLBE11	966230	9056	109 - 2	18808		Thr-1 to Gly-6, Gln-13 to Phe-20.	H0485: 1 and L0751: 1.	
HDLAX74	765091	9057	277 - 516	18809		Gly-1 to Gln-8, Leu-17 to Cys-26, Pro-38 to Gln-47, Ser-59 to Gly-66.	L0753: 3 and H0485: 1.	
HDLAX52	726241	9058	615 - 794	18810				
HDLAW58	735559	9059	111 - 395	18811		Asn-78 to Tyr-83.	H0485: 1 and L0731: 1. 10q	
HDLAV11	852919	9060	122 - 256	18812			H0485: 1 and L0759: 1.	
HDLAG57	565105	9061	211 - 441	18813		Arg-9 to Gly-20.	H0485: 1	
HDLAC67	751699	9062	1 - 141	18814		Asn-14 to Ile-19.	H0485: 1	
HDLAC51	799888	9063	261 - 428	18815		Leu-20 to Asn-25, Leu-41 to Asn-51.	H0485: 1	
HDLAC30	799891	9064	3 - 209	18816		Asp-1 to Arg-18.	H0485: 1	

HDLA458	736081	9065	297 - 491	18817	Ser-16 to Ser-21.	H0485: 1
HDCBF12	969401	9066	1 - 189	18818	Phe-6 to Thr-11.	H0637: 1 and L0658: 1.
HDCBD07	951048	9067	1 - 180	18819		H0637: 1 and L0666: 1.
HDCAN06	933818	9068	3 - 176	18820		H0637: 1 and L0601: 1.
HDCAC61	852968	9069	80 - 298	18821		H0637: 1 and L0518: 1.
HDBAK09	625387	9070	316 - 546	18822	Asn-6 to Arg-11.	H0578: 1 and L0755: 1.
HDBAA11	966723	9071	283 - 459	18823	Leu-3 to Gln-9.	L0717: 1 and H0578: 1.
HCWVH01	915420	9072	78 - 194	18824		H0589: 1 and L0753: 1.
HCWVA80	974488	9073	1 - 135	18825	Glu-1 to Gln-22.	H0589: 1
HCWUS57	974462	9074	104 - 433	18826	Leu-28 to Ser-33, Thr-57 to Lys-63, Lys-75 to Tyr-84, Thr-94 to Gly-103.	H0589: 1
HCWUS50	974467	9075	328 - 516	18827	His-26 to Gln-39, Leu-53 to Tyr-61.	H0589: 1
HCWUQ81	853002	9076	285 - 518	18828	Val-10 to Gly-15.	H0589: 1 and L0748: 1.
HCWUQ10	964080	9077	1 - 207	18829	Ser-31 to Gly-45, Glu-60 to Asn-65.	H0589: 1, L0775: 1 and L0758: 1.
HCWUP62	743064	9078	218 - 430	18830		H0589: 1, L0743: 1 and L0744: 1.
HCWUM01	974466	9079	1 - 243	18831	His-71 to Pro-77.	H0589: 1
HCWUL35	706530	9080	69 - 191	18832	Ala-7 to His-12.	L0777: 2 and H0589: 1.
HCWUI49	722674	9081	152 - 367	18833	Glu-16 to Arg-21, Pro-35 to Ala-41.	H0589: 1 and L0596: 1.
HCWTP17	662486	9082	16 - 225	18834	Ser-23 to Lys-29, Ser-55 to Asp-68.	H0589: 1 and L0740: 1.
HCWTL02	919252	9083	99 - 308	18835	Leu-2 to Ser-9.	H0589: 1 and L0759: 1.
HCWSC38	706523	9084	194 - 547	18836	Ala-6 to Leu-11, Leu-70 to Ser-83.	H0305: 1 and L0758: 1.
HCWLA43	927571	9085	130 - 324	18837		H0305: 1 and L0748: 1.
HCWK171	888167	9086	2 - 322	18838	Thr-7 to Ser-35.	AR050: 1, AR051: 1, AR054: 1 H0305: 1
HCWKS70	757172	9087	44 - 142	18839	Thr-14 to Gln-25.	H0305: 1
HCWKS35	706518	9088	147 - 332	18840	Phe-1 to Leu-6.	H0305: 1

HCWKR86	784705	9089	263 - 376	18841	Gln-32 to Gly-38.	H0305: 1
HCWKR85	783555	9090	138 - 284	18842	Arg-6 to Leu-13, Cys-20 to His-27, Lys-41 to Pro-47.	H0305: 1
HCWKR82	742602	9091	121 - 255	18843	Leu-21 to Gly-26, Ser-35 to Cys-42.	H0305: 1
HCWKR81	725027	9092	79 - 225	18844	Ser-8 to Pro-19.	H0305: 1
HCWKR14	658421	9093	128 - 334	18845	Gln-39 to Trp-47.	H0305: 1, L0748: 1 and L0749: 1.
HCWKR09	625546	9094	57 - 314	18846		H0305: 1 and L0741: 1.
HCWKR72	760628	9095	62 - 169	18847	Arg-26 to Ile-36.	H0305: 1 and L0757: 1.
HCWKR85	783545	9096	38 - 202	18848	Lys-1 to Ser-16, Arg-24 to Ser-32, Glu-49 to Asp-58, Ala-67 to Thr-74.	L0748: 2, L0749: 2 and H0305: 1.
HCWKR61	741803	9097	2 - 241	18849		H0305: 1 and L0731: 1.
HCWHR53	728248	9098	148 - 345	18850		AR051: 31, AR050: 26, AK054: 20
HCWHR76	838528	9099	448 - 693	18851	Lys-1 to Trp-10, Cys-34 to His-41, Thr-48 to Glu-62.	H0305: 1
HCWGY56	732688	9100	99 - 230	18852		H0305: 1 and L0748: 1.
HCWGU65	747198	9101	535 - 116	18853		H0305: 1
HCWGR02	920121	9102	1 - 291	18854	Ser-11 to Cys-20, Leu-27 to Val-36.	H0305: 1
HCWGE86	974476	9103	348 - 530	18855	Ile-1 to Asp-7.	H0305: 1, L0803: 1 and L0599: 1.
HCWGE85	783528	9104	238 - 360	18856	Pro-34 to Gln-39.	H0305: 1 and L0749: 1.
HCWGA64	746153	9105	30 - 152	18857		H0305: 1
HCWFO7	953582	9106	32 - 430	18858	Asn-14 to Gln-22, Arg-30 to Ala-37, Ser-45 to Gly-74.	H0305: 1, L0779: 1 and L0758: 1.
HCWFL40	710419	9107	49 - 291	18859		H0305: 1 and L0777: 1.
HCWFM44	716726	9108	108 - 584	18860	Arg-2 to His-13.	L0754: 2, H0305: 1 and L0748: 1.
						107741, 113900, 122720, 122720, 126340, 126391.

HCWFK37	800389	9109	128 - 304	18861	Pro-19 to Gln-25, Lys-45 to Leu-52.	AR050: 18, AR054: 12, AR051: 8 H0305: 1	160900, 164731, 173850, 207750, 248600, 258501
HCWFI71	489879	9110	2 - 328	18862	Thr-78 to Ala-86, Pro-98 to Gln-109.	H0305: 1	
HCWFE35	722467	9111	2 - 370	18863	Arg-1 to Arg-6.	L0740: 2, H0305: 1, L0157: 1 and L0755: 1.	
HCWFA63	578898	9112	1 - 237	18864	Gly-6 to Gln-14, Cys-24 to Phe-29.	H0305: 1	
HCWFA51	584725	9113	1 - 234	18865	Gly-6 to Gln-14, Cys-24 to Phe-29.	H0305: 1	
HCWFA35	908820	9114	50 - 364	18866	Lys-19 to Thr-26.	AR089: 13, AR061: 6 H0305: 1	
HCWFA27	578899	9115	86 - 349	18867	Gln-2 to Ser-7, Leu-20 to Lys-26.	H0305: 1	
HCWFA03	921938	9116	244 - 381	18868		H0305: 1	
HCWEW92	573389	9117	1 - 129	18869	Leu-20 to Thr-34.	H0305: 1	
HCWEW68	849928	9118	125 - 268	18870	Ala-29 to Glu-39.	H0305: 1	
HCWES28	685583	9119	2 - 127	18871		H0305: 1	
HCWER13	586984	9120	29 - 187	18872		H0305: 1	
HCWEQ61	741989	9121	2 - 301	18873	Glu-26 to Gln-31, Lys-41 to Glu-50.	H0305: 1, L0748: 1 and L0749: 1.	
HCWEH95	795046	9122	151 - 276	18874	Arg-1 to Trp-6, Cys-13 to Arg-19.	H0305: 1 and L0748: 1.	
HCWDO74	576471	9123	3 - 206	18875		H0305: 1	
HCWDO26	576470	9124	40 - 147	18876		H0305: 1	
HCWDD81	514607	9125	278 - 144	18877		H0305: 1	
	588502	9748	11 - 343	19500			
	623460	9749	99 - 326	19501	Pro-35 to Thr-40, Trp-51 to Ser-58.		
HCWCR40	711507	9126	176 - 316	18878	Phe-3 to Lys-8, Ser-15 to Val-22.	L0766: 2, H0305: 1 and L0745: 1.	
HCWCN11	849959	9127	717 - 896	18879		L0766: 2, L0748: 2 and	

HCWCM08	849958	9128	122 - 340	18880			H0305: 1.	
HCWCL46	719244	9129	240 - 410	18881		Gly-11 to Lys-16.	H0305: 1, L0766: 1 and L0777: 1.	
HCWCJ16	411336	9130	175 - 465	18882		Thr-72 to Tyr-79.	H0305: 1, L0774: 1 and L0465: 1.	
	514257	9750	549 - 355	19502		Ser-1 to Gly-10.	H0305: 1	
HCWCJ85	840121	9131	210 - 389	18883		Ser-1 to Arg-9.	H0305: 1 and L0766: 1.	
HCWCJ85	753191	9132	102 - 257	18884		Leu-13 to Gly-25, Pro-31 to Ile-36.	H0305: 1	
HCWCJ11	967666	9133	172 - 291	18885		Tyr-3 to Ser-10.	H0305: 1, L0109: 1, L0749: 1, L0779: 1 and L0599: 1.	
HCWBM07	954100	9134	108 - 467	18886		Tyr-17 to Ala-33, Pro-58 to Asp-63, Arg-89 to Asp-94, Ala-97 to Pro-104.	L0748: 11 and H0305: 1.	
HCWAN45	728385	9135	236 - 60	18887		Arg-42 to Asp-59.	H0305: 1	
	889047	9751	11 - 223	19503				
HCWAJ53	586997	9136	67 - 300	18888		Val-4 to Lys-13.	H0305: 1	
HCWAB85	783392	9137	180 - 311	18889		Pro-1 to Val-7.	H0305: 1	
HCWAB72	766288	9138	56 - 211	18890			H0305: 1	
HCWAB49	529659	9139	2 - 64	18891		Thr-3 to His-12.	H0305: 1	
HCWAB37	575491	9140	56 - 190	18892		Ala-18 to Trp-31, Thr-33 to Ser-38.	H0305: 1	
HCWAB36	529660	9141	98 - 244	18893		Tyr-1 to Asp-17, Trp-37 to Cys-44.	H0305: 1	
HCWAB35	416968	9142	1 - 201	18894		Ser-12 to Ser-17.	H0305: 1	
HCWAB25	575270	9143	21 - 137	18895		Arg-6 to Leu-13.	H0305: 1	
HCWAB23	529664	9144	2 - 241	18896		His-45 to Gln-53, Pro-56 to Thr-74.	H0305: 1 and L0789: 1.	
HCVAC86	785784	9145	27 - 227	18897		Leu-7 to Leu-13.	H0300: 1	
HCVAC80	529688	9146	143 - 316	18898			H0300: 1	
HCVAC73	529687	9147	2 - 226	18899		Pro-53 to Trp-62.	H0300: 1	
HCVAC72	529693	9148	39 - 260	18900			H0300: 1	

HCVAC70	507284	9149	1115 - 354	18901	Gly-9 to Ser-17, Thr-51 to Thr-57.	H0300: 1 and L0604: 1.	
HCVAC58	575510	9150	2 - 202	18902	Ser-16 to Ala-22, Lys-61 to Glu-67.	H0300: 1	
HCVAC47	861969	9151	168 - 326	18903	Ala-1 to Trp-8,	H0300: 1	
HCVAC45	529691	9152	2 - 289	18904	Glu-22 to Leu-28, Leu-32 to Pro-55, Arg-64 to Asp-69, Glu-73 to Leu-79.	H0300: 1	138190, 254210, 271900, 600179, 600977, 601202, 601777
HCVAC38	529692	9153	209 - 319	18905		H0300: 1	
HCVAC33	529694	9154	191 - 331	18906		H0300: 1	
HCVAC26	529698	9155	69 - 290	18907	Pro-15 to Arg-20.	H0300: 1	
HCVAC21	529695	9156	55 - 222	18908	Met-1 to Ser-6.	H0300: 1	
HCVAC19	879694	9157	3 - 197	18909		H0300: 1	
HCU006	934889	9158	229 - 372	18910	Ser-24 to Asp-37.	H0402: 1	
HCUIM28	849998	9159	2 - 409	18911	Pro-16 to Thr-29, Pro-45 to Ala-53, Pro-72 to Trp-77, Pro-101 to Ser-107.	H0402: 1 and L0759: 1.	
HCUK74	765645	9160	50 - 292	18912		L0750: 2 and H0402: 1.	
HCUHY13	657297	9161	120 - 386	18913		H0402: 1 and L0361: 1.	
HCUHY10	964727	9162	60 - 224	18914		H0402: 1 and L0748: 1.	
HCUHU61	850008	9163	183 - 395	18915	Glu-8 to Arg-15.	H0402: 1 and L0717: 1.	
HCUHU54	730739	9164	200 - 367	18916		H0402: 1 and L0754: 1.	
HCUHT92	792756	9165	3 - 206	18917	Asn-20 to Cys-25, Asn-30 to Ala-38.	H0402: 1 and L0748: 1.	
HCUHT74	765641	9166	113 - 256	18918	Asp-1 to Glu-8.	H0402: 1	
HCUHT37	575794	9167	87 - 200	18919	Asn-8 to Thr-31, Leu-33 to Trp-38.	H0402: 1	
HCUHT26	681874	9168	2 - 118	18920		H0402: 1	
HCUHT13	657295	9169	17 - 217	18921	Asn-11 to Lys-16.	H0402: 1	
HCUHT03	924494	9170	130 - 282	18922	Glu-37 to Gly-44.	L0748: 2 and H0402: 1.	
HCUHS21	670988	9171	247 - 423	18923		H0402: 1 and L0748: 1.	
HCUHO27	690027	9172	28 - 177	18924		L0731: 3, L0768: 2, H0402:	

HCUIH013	879921	9173							1, L0659: 1 and L0759: 1.
HCUIH11	967142	9174	515 - 276 180 - 410	18925 18926					H0402: 1 H0402: 1, L0717: 1 and L0612: 1. H0402: 1
HCUIH95	941943	9175	1411 - 1061	18927					
HCUIH04	927500	9176	3 - 566	18928					
HCUIH67	751673	9177	563 - 760	18929					
HCUIH186	784694	9178	133 - 312	18930					
HCUIH67	751669	9179	328 - 450	18931					
HCUGO07	953412	9180	122 - 262	18932					
HCUGN19	716989	9181	35 - 382	18933					
HCUGM03	792329	9182	5 - 262	18934					
HCUGM64	745853	9183	193 - 330	18935					
HCUGL20	668913	9184	112 - 303	18936					
HCUGL01	916530	9185	1 - 162	18937					
HCUGK86	785517	9186	164 - 301	18938					
HCUGK85	783521	9187	3 - 329	18939					
HCUGK78	773601	9188	69 - 227	18940					
HCUGK64	746604	9189	3 - 137	18941					
HCUGK54	730709	9190	3 - 116	18942					
HCUGK51	725013	9191	2 - 178	18943					
HCUGK38	706479	9192	19 - 174	18944					
HCUGK25	678130	9193	1 - 165	18945					
HCUGK18	666454	9194	110 - 259	18946					
HCUGK17	424102	9195	34 - 204	18947					
HCUGK14	657539	9196	2 - 265	18948					
HCUGK05	932078	9197	3 - 125	18949					
HCUG164	746608	9198	2 - 283	18950					
HCUGH79	775206	9199	178 - 279	18951					

HCUGH64	746600	9200	35 - 133	18952	Leu-19 to Lys-24, Met-1 to Trp-7, Arg-20 to Gln-33.	H0402: 1
HCUGH52	726052	9201	67 - 183	18953		H0402: 1
HCUGH44	716624	9202	1 - 60	18954		H0402: 1
HCUGH42	713782	9203	89 - 274	18955	Lys-1 to Lys-6.	H0402: 1
HCUGD30	850041	9204	178 - 432	18956	Glu-7 to Gln-14.	L0777: 2, L0599: 2, H0402: 1 and L0369: 1.
HCUGC25	464029	9205	27 - 287	18957	Gly-67 to Glu-73, Val-82 to Tyr-87.	H0402: 1 and L0740: 1.
HCUGB93	850043	9206	2 - 187	18958	Tyr-40 to Gln-45.	H0402: 1
HCUGB58	736092	9207	30 - 113	18959	Lys-19 to Pro-28.	H0402: 1
HCUGB37	706468	9208	56 - 208	18960	Leu-26 to Arg-31, Gly-38 to Lys-51.	H0402: 1
HCUGB22	575851	9209	3 - 134	18961		H0402: 1
HCUGB20	669742	9210	113 - 226	18962		H0402: 1
HCUGB14	854035	9211	185 - 373	18963	Glu-27 to Ser-39.	H0402: 1
HCUFY79	494008	9212	511 - 245	18964		H0402: 1
	882298	9752	287 - 571	19504	Lys-12 to Glu-25, Gly-64 to Asp-79.	
HCUFW11	850054	9213	222 - 401	18965	Glu-1 to Trp-6, Met-21 to Ser-30, Pro-54 to Ala-60.	H0402: 1 and L0748: 1.
HCUFW09	625658	9214	1 - 186	18966	Lys-1 to Pro-6, Ser-8 to Thr-15.	H0402: 1 and L0599: 1.
HCUFT37	706467	9215	239 - 370	18967		H0402: 1, L0021: 1, L0665: 1, L0770: 1, L0769: 1, L0803: 1, L0804: 1, L0791: 1, L0665: 1 and L0747: 1.
HCUFQ08	959567	9216	1 - 342	18968	Leu-21 to Asn-27.	H0402: 1 and L0309: 1.
HCUFPI1	967155	9217	2 - 220	18969	Lys-1 to His-6, Pro-20 to Ala-25, Pro-35 to Val-40, Leu-53 to Ser-61.	H0402: 1 and L0749: 1.
HCUFQ06	796434	9218	2 - 136	18970		H0402: 1
HCUFQ93	792376	9219	64 - 210	18971	Ser-1 to His-12,	H0402: 1

HCUF068	753083	9220	3 - 122	18972	Pro-15 to Ser-29.			
HCUF043	715337	9221	61 - 225	18973	Pro-6 to Thr-18. Gly-15 to Cys-33. Glu-40 to Lys-52.	H0402: 1		
HCUF036	575850	9222	79 - 366	18974	Thr-1 to Gly-9, Pro-68 to Glu-79, Pro-91 to Arg-96.	H0402: 1		
HCUF024	677273	9223	70 - 327	18975		H0402: 1	5q31.3-q33.1	109690, 109690, 131400, 154500, 159000, 180071, 181460, 222600, 222600, 222600, 272750, 600807, 601596, 602089
HCUF011	967156	9224	2 - 160	18976	Glu-33 to Thr-44.	H0402: 1 and L0682: 1.		
HCUFN78	773620	9225	1 - 168	18977		H0402: 1 and L0754: 1.		
HCUFM35	706461	9226	253 - 414	18978		H0402: 1, L0766: 1, L0647: 1, L0749: 1 and L0605: 1.		
HCUF140	711242	9227	96 - 326	18979	Ala-1 to Ser-8.	L0604: 2 and H0402: 1.		
HCUFK35	706460	9228	161 - 457	18980	Ser-18 to Ala-24, Gly-32 to Asp-41, Arg-52 to Ile-57.	L0605: 2, H0402: 1, L0777: 1 and L0604: 1.		
HCUFK09	961145	9229	1 - 333	18981		H0402: 1 and L0365: 1.		
HCUFJ08	850074	9230	51 - 215	18982	Leu-1 to Gly-7.	H0402: 1 and L0601: 1.		
HCUFJ50	974472	9231	90 - 425	18983		H0402: 1		
HCUFF74	765662	9232	11 - 112	18984		H0402: 1 and L0596: 1.		
HCUFJ55	731843	9233	48 - 152	18985	His-5 to Ser-10.	H0402: 1 and L0750: 1.		
HCUFJ54	730745	9234	145 - 312	18986	Pro-2 to Tyr-7, Pro-30 to Cys-36.	H0402: 1 and L0751: 1.		
HCUFJ70	757280	9235	346 - 534	18987	Pro-6 to Ser-12, Asp-19 to Ile-25.	L0748: 2 and H0402: 1.		
HCUFJ01	916805	9236	163 - 384	18988		L0369: 2 and H0402: 1.		
HCUFQ12	922536	9237	368 - 138	18989		H0402: 1 and L0731: 1.	Bq26	165215, 222900, 600049
HCUEP32	586999	9238	127 - 273	18990	Leu-7 to Gly-17, Leu-23 to Cys-28,	H0402: 1		

HCUE074	576576	9239	2 - 223	18991	Glu-35 to Lys-46. Val-24 to Gly-35, Pro-46 to Cys-51, Thr-57 to Lys-74.	H0402: 1	
HCUE020	669764	9240	267 - 464	18992	Lys-6 to Leu-16.	H0402: 1 and L0600: 1.	
HCUE093	792424	9241	52 - 240	18993	Gly-1 to Cys-6.	L0748: 2 and H0402: 1.	
HCUE015	660450	9242	236 - 370	18994	Glu-32 to Gly-38.	H0402: 1 and L0362: 1.	
HCUE024	677300	9243	171 - 341	18995		L0439: 2 and H0402: 1.	
HCUE007	953587	9244	211 - 462	18996	Glu-12 to Asp-21, Pro-33 to Ser-53, Leu-60 to Thr-69.	L0599: 2, H0402: 1 and L0769: 1.	
HCUEG27	683541	9245	314 - 544	18997		H0402: 1 and L0748: 1.	
HCUEF38	706450	9246	1 - 171	18998	Leu-16 to Asp-21.	H0402: 1	
HCUE005	932123	9247	3 - 194	18999	Ser-15 to Cys-31.	H0402: 1	
HCUDY74	839955	9248	133 - 321	19000	Ala-42 to Glu-49.	H0402: 1 and L0520: 1.	
HCUDX89	974483	9249	3 - 227	19001	Asp-11 to Arg-17, Arg-32 to Pro-44, Leu-53 to His-58, Glu-68 to Cys-75.	H0402: 1	
HCUDU18	850099	9250	1 - 261	19002	Arg-33 to Thr-39.	H0402: 1 and L0589: 1.	
HCUDQ81	902510	9251	144 - 329	19003	Lys-1 to Ile-8, Leu-24 to Gly-29, Glu-52 to Lys-62.	H0402: 1	
	928439	9753	440 - 3	19505	Lys-1 to Ile-8, Leu-24 to Gly-29, Glu-52 to Ser-64, Asn-88 to Asn-97, Glu-104 to Glu-109.		
HCUDQ45	881366	9252	295 - 591	19004	Pro-43 to Trp-48, Ser-81 to Ser-90.	H0402: 1	
HCUDN89	811185	9253	2 - 328	19005		H0402: 1 and L0756: 1.	
HCUDN82	779978	9254	185 - 310	19006		H0402: 1 and L0599: 1.	
HCUDN71	862116	9255	2 - 394	19007		H0402: 1 and L0766: 1.	
HCUDK08	959679	9256	188 - 316	19008		H0402: 1 and L0803: 1.	
HCUD117	664109	9257	57 - 227	19009	Leu-18 to Ser-25.	H0402: 1	
HCUDG26	681985	9258	226 - 369	19010		H0402: 1 and L0591: 1.	

HCUD007	953588	9259	2 - 235	19011		H0402: 1	
HCUC38	850117	9260	1 - 165	19012		H0306: 1 and L0750: 1.	
HCUC14	659221	9261	189 - 353	19013	Trp-1 to Ser-9.	H0306: 1, L0748: 1 and L0749: 1.	
HCUC123	676276	9262	119 - 208	19014		H0306: 1 and L0745: 1.	
HCUC129	608615	9263	2 - 343	19015	Ser-25 to Ser-30.	AR051: 9, AR050: 3, AR054: 2	
	637567	9754	2 - 337	19506	Ser-23 to Ser-28, Cys-79 to His-84.	H0306: 1	
HCUCG40	800153	9264	1 - 153	19016		AR054: 24, AR051: 19, AR050: 12	
						H0306: 1	
HCUCG07	953823	9265	73 - 300	19017	Lys-19 to Lys-25.	H0306: 1 and L0387: 1.	
HCUCD83	781346	9266	115 - 381	19018		H0306: 1 and L0755: 1.	
HCUCD05	932333	9267	116 - 376	19019		L0588: 2, H0306: 1 and L0747: 1.	
HCUCB45	850122	9268	125 - 400	19020	Ser-1 to Gly-7.	H0306: 1, L0800: 1, L0809: 1 and L0779: 1.	
HCUBV91	790368	9269	47 - 223	19021		H0306: 1 and L0596: 1.	
HCUBT35	850126	9270	121 - 291	19022	Glu-50 to Ala-57.	H0306: 1 and L0748: 1.	
HCUBS07	953861	9271	85 - 243	19023	Asp-13 to Trp-18, Leu-39 to Gly-46.	H0306: 1 and L0749: 1.	
HCUBP94	574198	9272	3 - 143	19024	Cys-11 to Gln-20.	H0306: 1	
HCUBP82	526773	9273	1 - 69	19025		H0306: 1	
HCUBP48	577289	9274	1 - 222	19026	Asn-12 to His-19, Lys-61 to Thr-72.	H0306: 1 and L0748: 1.	
HCUBP34	576462	9275	177 - 383	19027	Lys-1 to Thr-7.	H0306: 1	
HCUBP10	961259	9276	3 - 203	19028	Thr-17 to Glu-25, Leu-29 to Arg-44.	H0306: 1	
HCUBO67	526489	9277	128 - 232	19029	Pro-15 to Cys-28.	H0306: 1	
HCUBM73	577294	9278	1 - 201	19030	Pro-1 to Cys-16.	H0306: 1 and L0748: 1.	
HCUBM49	722190	9279	163 - 438	19031	Gly-84 to Thr-90.	L0749: 2, H0306: 1 and L0748: 1.	
HCUBL10	968223	9280	222 - 410	19032		H0306: 1 and L0761: 1.	

HCUBA45	723364	9281	194 - 367	19033	Lys-12 to Gly-21.	L0748: 2 and H0306: 1.
HCUBG69	757752	9282	2 - 238	19034		H0306: 1
HCUBG43	576468	9283	202 - 381	19035		H0306: 1
HCUBE89	785987	9284	2 - 169	19036	Glu-1 to Lys-13, Gly-34 to His-39.	L0777: 2 and H0306: 1.
HCUBE49	723175	9285	47 - 193	19037	Ser-3 to Gly-10, Leu-13 to His-20.	H0306: 1 and L0599: 1.
HCUBE22	409828	9286	338 - 499	19038		H0306: 1
HCUBB68	752247	9287	174 - 380	19039		H0306: 1 and L0748: 1.
HCUBA93	792515	9288	297 - 440	19040		H0306: 1 and L0591: 1.
HCUAZ01	917266	9289	176 - 298	19041	Pro-19 to Arg-34.	H0306: 1 and L0634: 1.
HCUAW03	924897	9290	193 - 426	19042	Thr-20 to Asp-25, His-42 to Ser-58, Asn-68 to Leu-73.	H0306: 1 and L0776: 1.
HCUAP34	706126	9291	8 - 97	19043		H0306: 1 and L0748: 1.
HCUAN95	796010	9292	2 - 100	19044		H0306: 1
HCUAN89	574275	9293	49 - 141	19045	Ser-21 to Lys-31.	H0306: 1
HCUAN53	728364	9294	2 - 133	19046		H0306: 1
HCUAM65	887470	9295	225 - 464	19047		AR050: 38, AR054: 30, AR051: 29 H0306: 1
HCUAL33	702677	9296	8 - 181	19048		L0749: 2, H0306: 1 and L0748: 1.
HCUAAG10	968229	9297	1 - 168	19049		H0306: 1 and L0601: 1.
HCUAFF80	862171	9298	3 - 140	19050	Ile-26 to Lys-31, Pro-39 to Pro-44.	L0772: 2 and H0306: 1.
HCUAFA01	850153	9299	53 - 313	19051	Pro-10 to Ser-16.	H0306: 1
HCUAA92	792947	9300	429 - 593	19052		H0306: 1, L0766: 1, L0745: 1 and L0752: 1.
HCFOPO9	862572	9301	438 - 638	19053	Arg-19 to Arg-25.	L0385: 1 and H0423: 1.
HCFOO25	678200	9302	115 - 246	19054		L0777: 1 and H0423: 1.
HCFOO01	916687	9303	230 - 412	19055		L0717: 1 and H0423: 1.
HCFOH45	850372	9304	145 - 474	19056	Ser-37 to Ser-42.	AR050: 16, AR054: 7, AR051: 4 H0423: 1

HCFOF34	955905	9305	79 - 249	19057	Ile-1 to Leu-6.	L0375: 1, L0542: 1, L0526: 1, L0749: 1, L0759: 1 and H0423: 1.	
HCFNQ62	745755	9306	2 - 151	19058		L0598: 2, UNKWN: 1, L0748: 1, L0749: 1 and H0423: 1.	
HCFNP09	961149	9307	145 - 393	19059	Ala-15 to Leu-27, Ser-42 to Glu-47.	L0804: 2, L0731: 2, L0747: 1 and H0423: 1.	
HCFNJ34	485822 494112	9308 9755	2 - 325 314 - 135	19060 19507	Arg-25 to Gly-36, Thr-55 to Tyr-60.	H0423: 1	
HCFNG63	745148	9309	45 - 245	19061	Pro-4 to Pro-67.	H0423: 1	
HCFNG10	848225	9310	140 - 1036	19062	Pro-4 to Phe-9, Glu-17 to Pro-24, Lys-51 to Ala-104, Lys-114 to Lys-140, Arg-153 to Gln-188, Glu-203 to Gly-234, Glu-247 to Thr-262.	L0766: 1 and H0423: 1.	
HCFNB09	625697	9311	39 - 137	19063	Thr-37 to Cys-43.	L0748: 1 and H0423: 1.	
HCFNA77	874777	9312	2 - 163	19064	Lys-13 to Gln-19, Ser-26 to Cys-40.	L0758: 1 and H0423: 1.	
HCFNA64	850391	9313	171 - 464	19065		L0777: 1 and H0423: 1.	
HCFNA21	671021	9314	115 - 258	19066	Leu-7 to Leu-13, Pro-15 to Cys-28, Arg-41 to Lys-46.	H0423: 1	
HCFMZ90	922112	9315	273 - 881	19067	Asp-1 to Arg-8, Lys-15 to Asn-20, Thr-74 to Leu-80, Pro-84 to Asp-90.	AR061: 2, AR089: 1, L0749: 1, L0731: 1, L0757: 1 and H0423: 1.	
HCFMIW71	920306	9316	195 - 407	19068	Pro-7 to Thr-12.	AR089: 10, AR061: 3, L0748: 3, L0749: 3, L0005: 1, L0777: 1, L0361: 1 and H0423: 1.	
HCFMU01	916695	9317	51 - 263	19069	Arg-37 to His-52.	L0766: 2 and H0423: 1.	
HCFNP46	463278	9318	54 - 245	19070	Asp-56 to Tyr-63.	L0756: 2, L0777: 2, L0749: 1	

HCFLM047	881505	9319	125 - 322	19071	Pro-14 to Thr-23, Leu-42 to Ser-51.	1 and H0423: 1. H0423: 1	20q11.2	139190, 139190, 224100, 601002, 601002, 601146, 601146, 601146
HCFLM02	920349	9320	278 - 607	19072	Phe-18 to Gly-23, Met-79 to Asp-89.	L0809: 1 and H0423: 1.		
HCFLM37	955281	9321	137 - 658	19073	Pro-58 to Cys-69, Pro-71 to Glu-77, Tyr-102 to Ser-107.	AR089: 5, AR061: 1 H0423: 1		
HCFLM46	719113	9322	109 - 321	19074		L0654: 1 and H0423: 1.		
HCFLY85	909182	9323	96 - 242	19075	Arg-16 to Arg-21, Trp-37 to Leu-48.	L0766: 2, L0747: 2 and H0423: 1.		
HCFLY53	727465	9324	71 - 265	19076		L0748: 3 and H0423: 1.		
HCFLY08	959620	9325	238 - 495	19077		L0599: 2, L0763: 1, L0805: 1, L0754: 1 and H0423: 1.		
HCFLY30	692781	9326	253 - 462	19078	Glu-9 to Ala-14, Gln-24 to Gln-31, Arg-41 to Pro-48.	L0748: 3 and H0423: 1.		
HCFLT86	785560	9327	246 - 560	19079	Tyr-49 to Ala-55.	L0749: 1 and H0423: 1.		
HCFLM03	850403	9328	219 - 395	19080	Asn-12 to Tyr-23.	L0581: 1 and H0423: 1.		
HCFLM03	850406	9329	351 - 698	19081	Pro-39 to Gly-47, Asn-55 to Ser-64, Ser-76 to Gln-83.	L0527: 2, L0366: 1 and H0423: 1.		
HCFLK10	964792	9330	230 - 460	19082		L0745: 1, L0750: 1 and H0423: 1.		
HCFLB24	502414	9331	3 - 248	19083	Ser-43 to Ala-49, Glu-76 to Met-82.	H0423: 1		
HCFLD43	511210	9756	433 - 251	19508	Pro-25 to Ser-33.			
	779327	9332	3 - 173	19084	Glu-38 to Gly-43.	L0586: 1, L0756: 1 and H0422: 1.	12q14	123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116
HCFCV32	850413	9333	168 - 377	19085	Asp-22 to Gln-27, Pro-29 to Gly-36.	H0422: 1		

HCFCP77	772256	9334	87 - 194	19086	Glu-1 to Lys-15.	L0754: 1 and H0422: 1.
HCFCM75	850435	9335	182 - 355	19087	Lys-50 to Lys-64.	L0740: 1 and H0422: 1.
HCFCCK25	494159	9336	239 - 3	19088	Pro-38 to Leu-43, Ile-49 to Cys-55.	L0517: 1 and H0422: 1.
	519091	9757	212 - 376	19509	Lys-46 to Lys-57.	H0422: 1
HCFCG23	850426	9337	44 - 247	19089	Arg-58 to Glu-66.	H0422: 1
HCFCF76	973808	9338	1 - 291	19090	Arg-23 to Thr-28.	L0794: 2 and H0422: 1.
HCFCFC10	964782	9339	277 - 507	19091		H0422: 1
HCFCBX86	844884	9340	425 - 619	19092		
	874103	9758	273 - 485	19510		
HCFCBQ30	692787	9341	505 - 338	19093		L0748: 1, L0754: 1, L0745: 1 and H0422: 1.
HCFCBM75	766599	9342	137 - 316	19094	Pro-31 to Lys-38.	L0748: 1 and H0422: 1.
HCFCBM41	711631	9343	589 - 774	19095	Glu-1 to Trp-7.	L0748: 1 and H0422: 1.
HCFCBK28	706243	9344	4 - 171	19096	Gly-35 to His-41.	L0754: 1 and H0422: 1.
HCFCBK04	925601	9345	182 - 304	19097		L0803: 3, L0777: 3, L0756: 2, L0780: 2, L0766: 1, L0774: 1, L0743: 1, L0757: 1, L0596: 1 and H0422: 1.
						H0422: 1
HCFCBI51	670066	9346	27 - 518	19098		L0794: 1, L0805: 1, L0439: 1, L0747: 1, L0779: 1, L0758: 1 and H0422: 1.
HCFCBA94	698647	9347	139 - 291	19099	Asp-15 to Ser-22.	AR051: 13, AR054: 2, AR050: 1 H0422: 1
HCFCAZ12	970609	9348	3 - 188	19100	Ser-28 to Asn-40, Lys-68 to Lys-74.	L0588: 1 and H0422: 1.
HCFCAZ07	849823	9349	222 - 1	19101	Leu-1 to Ala-7.	L0438: 2 and H0422: 1.
HCFCAF08	959714	9350	117 - 275	19102	Arg-1 to Lys-7,	H0422: 1
HCFCAC38	576723	9351	2 - 166	19103	Arg-28 to Arg-34.	
HBVAB02	971578	9352	324 - 139	19104		S3016: 1, L0598: 1, L0763: 1 and L0665: 1.
HBUAG44	716685	9353	3 - 110	19105	His-1 to Ser-6, Ser-21 to Val-28.	S0182: 1 and L0766: 1.
HBUAC23	847698	9354	3 - 194	19106		S0182: 1 and L0748: 1.

HBTAE84	781946	9355	2 - 295	19107	Thr-41 to Phe-51, Leu-58 to Asn-63.	AR089: 1, AR061: 0 S0180: 1	
HBMXU73	953898	9356	507 - 635	19108	Tyr-7 to Thr-21.	L0770: 2, S0116: 1, L0775: 1 and L0439: 1.	
HBMXS23	675254	9357	216 - 455	19109	Gln-1 to Pro-7, Gln-43 to Ser-53, Lys-67 to Lys-74.	L0748: 4, L0605: 3, S0116: 1 and L0747: 1.	
HBMXL78	738763	9358	312 - 452	19110		S0116: 1 and L0731: 1.	
HBMXL41	711608	9359	2 - 118	19111		S0116: 1 and L0748: 1.	
HBMXJ70	757328	9360	291 - 398	19112		S0116: 1 and L0748: 1.	
HBMXG10	968055	9361	16 - 198	19113	Glu-15 to Trp-22, Cys-24 to Tyr-31, Ser-32 to Arg-57.	S0116: 1 and L0439: 1.	
HBMXF73	764551	9362	134 - 295	19114	Ser-37 to Met-44.	S0116: 1 and L0748: 1.	
HBMWX13	955208	9363	153 - 317	19115	Pro-3 to Pro-11.	S0116: 1 and L0665: 1.	
HBMWS75	767440	9364	108 - 350	19116	Met-1 to Gly-6, Lys-19 to Val-26.	S0116: 1 and L0748: 1.	
HBMWR62	754059	9365	177 - 395	19117		S0116: 1, L0754: 1 and L0589: 1.	
HBMWK06	936088	9366	142 - 249	19118	Lys-3 to Cys-13.	S0116: 1 and L0608: 1.	
HBMWZ8	685443	9367	3 - 134	19119	Gly-7 to Arg-13.	L0748: 2 and S0116: 1.	
HBMWE35	706034	9368	184 - 360	19120	Ser-1 to Ser-10, Pro-39 to His-45.	L0745: 2 and S0116: 1.	102578, 109700, 151670, 154550, 601780
HBMVQ26	546495	9369	175 - 303	19121	Ala-8 to Glu-20.	S0116: 1	
HBMVO41	712565	9370	225 - 359	19122		S0116: 1 and L0439: 1.	
HBMVJ33	702683	9371	75 - 242	19123		S0116: 1 and L0439: 1.	
HBMVG85	575418	9372	54 - 221	19124		L0439: 2 and S0116: 1.	
HBMVY18	666855	9373	37 - 159	19125		L0748: 4 and S0116: 1.	
HBMVE59	933208	9374	50 - 178	19126	Asn-4 to Ser-10.	L0748: 3 and S0116: 1.	
HBMVD05	932441	9375	175 - 357	19127	Met-21 to Lys-27, Asp-35 to Thr-40, Gln-42 to Tyr-47.	S0116: 1 and L0581: 1.	
HBMUW96	574517	9376	28 - 210	19128		S0116: 1	
HBMUW85	783416	9377	257 - 625	19129	Pro-11 to Gly-24.	S0116: 1, L0439: 1 and L0731: 1.	

HBMUW58	574513	9378	86 - 214	19130		S0116: 1	
HBMUW03	847787	9379	244 - 408	19131		S0116: 1 and L0758: 1.	
HBMU131	456760	9380	249 - 503	19132	Ser-22 to Gln-34.	S0116: 1	
HBMU559	739509	9381	55 - 249	19133	Arg-10 to Thr-16.	S0116: 1 and L0758: 1.	
HBMU623	425961	9382	464 - 619	19134		S0116: 1 and L0766: 1.	
	675305	9759	155 - 337	19511			
	675308	9760	287 - 189	19512	Gln-16 to Lys-33.		
HBMU091	789320	9383	262 - 603	19135	Asp-43 to His-71.	S0116: 1 and L0748: 1.	
HBMU813	950984	9384	177 - 416	19136		S0116: 1 and L0740: 1.	
HBMTX71	760605	9385	122 - 331	19137	Ile-1 to Leu-7, Lys-33 to Ser-38, Gln-52 to Gly-66.	S0116: 1 and L0748: 1.	
HBMTS23	676310	9386	44 - 298	19138	Thr-34 to Asp-39, Pro-75 to Ser-82.	S0116: 1, L0438: 1 and L0439: 1.	
HBMTX29	847785	9387	207 - 497	19139		L0599: 2, S0116: 1, L0763: 1 and L0748: 1.	
HBMTM67	751907	9388	162 - 308	19140		S0116: 1 and L0754: 1.	
HBMTD69	754179	9389	199 - 324	19141		S0116: 1 and L0754: 1.	
HBMTB85	923730	9390	192 - 446	19142		S0116: 1 and L0750: 1.	
HBMTB34	706024	9391	178 - 474	19143	Leu-11 to Asn-19, Arg-39 to Tyr-44, Gly-49 to Ala-55.	L0749: 2 and S0116: 1.	
HBMSX83	863883	9392	1 - 162	19144	Arg-1 to Ser-8.	S0116: 1 and L0766: 1.	
HBMSD02	920096	9393	219 - 380	19145	Tyr-12 to Tyr-17.	H0421: 1 and L0777: 1.	
HBMDN16	661947	9394	265 - 495	19146		H0421: 1 and L0439: 1.	
HBMDM25	678127	9395	380 - 571	19147	Asn-14 to Ile-20, Cys-30 to Tyr-36.	H0421: 1, L0766: 1 and L0439: 1.	
HBMDL27	683427	9396	280 - 501	19148	Ser-6 to Arg-26, Ser-28 to Arg-38, Phe-63 to Tyr-74.	H0421: 1 and L0748: 1.	
HBMDDF52	727169	9397	365 - 547	19149	Lys-18 to Gly-23.	H0421: 1 and L0599: 1.	
HBMD072	879813	9398	67 - 387	19150	Pro-2 to Gln-10.	H0421: 1	
HBMC230	692733	9399	324 - 530	19151	Arg-1 to Gly-11, Ala-15 to Ser-22, Gln-40 to Gly-45.	H0421: 1 and L0602: 1.	

HBMCCT24	677209	9400	133 - 285	19152			H0421: 1
HBMCCT09	625627	9401	436 - 626	19153	Phe-1 to Asn-11.		L0754: 2 and H0421: 1.
HBMCSC92	792736	9402	2 - 181	19154	Ala-1 to Lys-12.		H0421: 1 and L0748: 1.
HBMCSC55	731802	9403	76 - 219	19155			L0746: 2, H0421: 1 and L0777: 1.
HBMCRC25	678164	9404	275 - 613	19156			L0766: 3, H0421: 1 and L0741: 1.
HBMCQC95	888393	9405	181 - 372	19157			AR050: 133, AR054: 121, AR051: 115
HBMCQ84	783043	9406	3 - 170	19158	Gln-21 to Val-26, Lys-42 to Ile-47.		H0421: 1
HBMCFC20	646279	9407	106 - 495	19159			H0421: 1 and L0748: 1.
HBMCB55	731800	9408	1 - 228	19160	Pro-13 to Arg-21.		H0421: 1, L0384: 1 and L0592: 1.
HBMBX72	911168	9409	438 - 719	19161	Trp-10 to Ala-18, Arg-86 to Pro-93.		H0421: 1 and L0748: 1.
HBMBX64	746633	9410	91 - 249	19162			H0421: 1
HBMBX55	668981	9411	199 - 327	19163	Gln-19 to Ala-31.		L0754: 2 and H0421: 1.
HBMBU52	973805	9412	97 - 282	19164			H0421: 1, L0748: 1, L0439: 1 and L0596: 1.
HBMBN85	783520	9413	18 - 212	19165	Arg-25 to Cys-32.		H0421: 1 and L0794: 1.
HBMBI49	723094	9414	316 - 456	19166	Thr-1 to Ser-9.		H0421: 1
HBMBF89	912789	9415	73 - 579	19167			L0748: 2 and H0421: 1.
HBMBF78	623421	9416	500 - 892	19168			H0421: 1, L0749: 1 and L0755: 1.
HBMBE68	879588	9417	2 - 400	19169			H0421: 1
HBMBG66	859500	9418	87 - 353	19170	His-12 to Cys-21.		H0421: 1 and L0776: 1.
HBMBB57	734915	9419	1 - 147	19171			H0421: 1 and L0747: 1.
HBMBB45	578817	9420	12 - 293	19172	Val-6 to Lys-18, Arg-31 to Arg-42, Arg-48 to Asn-55.		H0421: 1
HBMAC54	930481	9421	191 - 433	19173			H0421: 1
HBUNC01	915970	9422	120 - 299	19174			T0071: 1 and L0051: 1.
HBINB52	726475	9423	160 - 357	19175	Pro-15 to Cys-23.		H0318: 1 and L0766: 1.
							AR061: 4, AR089: 4

HBIMW95	797604	9424	497 - 802	19176	Thr-7 to Asp-21, Thr-42 to Ser-54, Ser-16 to Glu-22.	H0318: 1, L0766: 1 and L0748: 1.	
HBIMW03	921996	9425	149 - 310	19177		L0745: 2, H0318: 1, L0439: 1, L0746: 1 and L0779: 1.	
HBIMU53	727987	9426	88 - 285	19178	Arg-1 to Lys-6, Pro-17 to Phe-27.	H0318: 1 and L0439: 1.	
HBIMS40	710880	9427	101 - 235	19179		H0318: 1 and L0748: 1.	
HBIMR59	738615	9428	1 - 204	19180		H0318: 1 and L0748: 1.	
HBIML90	787320	9429	328 - 164	19181		H0318: 1, L0598: 1 and L0754: 1.	
HBIML80	775435	9430	165 - 305	19182	Ala-14 to Thr-19, Cys-29 to Trp-36.	H0318: 1 and L0750: 1.	
HBIME11	972939	9431	31 - 234	19183		H0318: 1	
HBIMC69	754875	9432	62 - 262	19184		H0318: 1 and L0748: 1.	
HBIMA80	777456	9433	42 - 215	19185		H0318: 1 and L0748: 1.	
HBILX09	625319	9434	290 - 442	19186	Gln-4 to Lys-14.	H0318: 1 and L0605: 1.	
HBILW74	765352	9435	88 - 354	19187	Ser-21 to Gly-27.	H0318: 1 and L0748: 1.	
HBILU36	847851	9436	68 - 439	19188	Glu-19 to Ser-30.	H0318: 1 and L0748: 1.	
HBILR37	849633	9437	2 - 328	19189	Asn-1 to His-11.	AR089: 3, AR061: 1 L0593: 2, L0594: 2, H0318: 1 and L0592: 1.	
HBILR31	900883	9438	3 - 956	19190	His-7 to Gly-17, Gly-28 to Gln-33, Asp-51 to Ala-59, Glu-94 to Glu-101, Pro-118 to Val-123, Pro-143 to Gly-152, Gln-203 to Glu-211, Ser-213 to Thr-226, Ser-233 to Gln-239, Arg-274 to Ser-279, His-288 to Pro-294.	AR061: 4, AR089: 3, AR051: 2, AR050: 1, AR054: 1 H0318: 1	
HBILF04	614915	9439	40 - 282	19191			
HBILE70	847853	9440	586 - 834	19192	Asn-25 to Ser-34.	H0318: 1 and L0591: 1. H0318: 1 and L0777: 1.	

HBJKI77	772000	9441	98 - 337	19193	Gly-50 to Ser-57.	L0747: 2 and H0318: 1.	
HBJKG07	952843	9442	530 - 802	19194	Pro-12 to Met-21.	H0318: 1 and L0800: 1.	
HBJKF02	919446	9443	246 - 398	19195	Glu-1 to Gly-8, Asp-32 to Glu-40.	H0318: 1 and L0766: 1.	
HBJKD77	771975	9444	179 - 379	19196		H0318: 1	
HBJKD64	746398	9445	3 - 143	19197	Ser-40 to Glu-47.	H0318: 1	
HBJKD60	740171	9446	666 - 902	19198		H0318: 1 and L0754: 1.	
HBJKD50	724159	9447	1 - 204	19199	Arg-1 to Tyr-6.	H0318: 1	
HBJKD49	847857	9448	3 - 215	19200		H0318: 1	
HBJKD40	710931	9449	36 - 179	19201		H0318: 1	
HBJKA77	771982	9450	2 - 178	19202		H0318: 1 and L0777: 1.	18p11.31-p11.2 202200
HBJKA01	916077	9451	19 - 153	19203	Lys-37 to Lys-45.	H0318: 1 and L0646: 1.	
HBJX33	835733	9452	79 - 393	19204		AR061: 6, AR089: 4 H0318: 1	
HBJTT12	894345	9453	3 - 596	19205	Phe-12 to Gln-21, Asp-27 to Thr-38, Pro-44 to Ser-52, Asn-54 to Ser-74, Ser-86 to Thr-92, Ala-117 to Phe-124, Gly-137 to Thr-142, Gly-182 to Ser-187.	AR061: 2, AR089: 1 L0749: 2 and H0318: 1.	
HBJIN02	919371	9454	306 - 548	19206	Thr-1 to Gly-9, Glu-29 to Ala-36, Pro-43 to Asn-50.	L0239: 1 and H0318: 1.	
HBJIL10	937583	9455	3 - 119	19207	Val-23 to Asn-30.	H0318: 1 and L0766: 1.	
HBJIE44	716409	9456	195 - 374	19208	Phe-5 to Trp-19, His-45 to Lys-53.	L0439: 2, L0780: 2 and H0318: 1.	
HBJIA32	699059	9457	381 - 683	19209	Asp-39 to Asn-46, Ser-61 to Gln-66.	L0744: 3, H0318: 1 and L0743: 1.	
HBJJA01	916078	9458	543 - 1055	19210	Asn-66 to Tyr-71, Gly-102 to Phe-109, Lys-120 to Asn-126.	L0766: 5, L0777: 3, L0779: 2, L0731: 2, H0318: 1 and L0803: 1.	
HBJIL42	597100	9459	280 - 411	19211		H0318: 1 and L0754: 1.	
HBJIL36	861363	9460	2 - 370	19212	Leu-62 to Ser-68.	H0318: 1, L0780: 1 and	

HBJH60	930448	9461	1 - 234	19213	Gly-117 to Gln-123, Pro-35 to Pro-42.	L0759: 1. AR089: 35, AR061: 8 H0318: 1, L0520: 1 and L0779: 1.		
HBJH51	725081	9462	86 - 205	19214	Leu-18 to Leu-28,	H0318: 1 and L0748: 1.		
HBJH31	697753	9463	482 - 255	19215	Leu-32 to Ala-60, Arg-69 to Gln-76.	L0748: 4 and H0318: 1.		
HBJH69	754891	9464	123 - 251	19216		L0748: 2 and H0318: 1.		
HBJH80	784267	9465	198 - 428	19217		H0318: 1, L0759: 1 and L0596: 1.		
HBJH73	971377	9466	241 - 1059	19218	His-8 to Gly-18, Thr-52 to Tyr-63, Tyr-93 to Gly-105, Arg-114 to Gln-130, Asn-139 to Cys-147, Cys-149 to Asp-159, Arg-196 to Trp-202.	AR050: 428, AR054: 421, AR051: 340 H0318: 1		
HBJH74	765380	9467	112 - 444	19219	Pro-4 to Leu-11, Gly-39 to Arg-53.	L0748: 2 and H0318: 1.		
HBJH20	907575	9468	125 - 298	19220	Ser-10 to Arg-15.	L0589: 2 and H0318: 1.		
HBJH04	852040	9469	171 - 347	19221	Arg-1 to Ser-6,	H0318: 1 and L0748: 1.		
HBJH196	828996	9470	237 - 437	19222	Thr-28 to Trp-38.	H0318: 1 and L0759: 1.	9q34.2-q34.3	120215, 120215, 190198
HBJH02	919450	9471	202 - 321	19223	Gly-17 to Lys-27, Gln-30 to Val-35.	H0318: 1, L0766: 1 and L0608: 1.		
HBJG03	923800	9472	35 - 226	19224	Ala-16 to Ser-22, Pro-31 to Leu-38, Ser-41 to Gly-48.	AR061: 5, AR089: 3 L0769: 2, H0318: 1 and L0787: 1.		
HBJFR45	722105	9473	309 - 518	19225	Gln-20 to Ser-34, Cys-53 to Asp-58.	H0318: 1, L0789: 1 and L0748: 1.		
HBJFQ08	959190	9474	139 - 339	19226		H0318: 1		
HBJFP52	728580	9475	165 - 362	19227	Asp-1 to Gly-6, Thr-38 to Arg-46.	L0439: 2 and H0318: 1.		
HBJFP08	959688	9476	191 - 388	19228	Arg-46 to Lys-51.	H0318: 1 and L0777: 1.		
HBJFK85	783432	9477	1 - 111	19229	Pro-20 to Ile-25.	L0439: 2 and H0318: 1.		

HBJFI48	847899	9478	271 - 483	19230		AR051: 32, AR054: 28, AR050: 23, H0318: 1	
HBJFI30	691056	9479	33 - 452	19231	Pro-1 to Trp-6, Glu-55 to Glu-64.	L0748: 2, L0740: 2 and H0318: 1.	
HBJFIH60	740543	9480	242 - 388	19232	Ala-5 to Arg-14, Tyr-22 to His-28.	L0756: 4, L0600: 2, H0318: 1 and L0754: 1.	
HBJFIH06	935587	9481	333 - 689	19233	Pro-8 to Ser-14, Asn-32 to Gly-38, Arg-75 to Ser-82, Ser-91 to Glu-96.	H0318: 1 and L0592: 1.	
HBJFIH41	711591	9482	3 - 377	19234		L0608: 2, H0318: 1 and L0748: 1.	
HBJFIH21	671205	9483	211 - 399	19235	Leu-3 to Gly-16.	L0766: 3, L0748: 3, H0318: 1, L0789: 1 and L0749: 1.	
HBJFIH23	423885	9484	3 - 458	19236		AR061: 8, AR089: 4	
HBJFIH10	968162	9485	44 - 259	19237		L0439: 3 and H0318: 1.	
HBJFIH89	787044	9486	104 - 322	19238	Asp-9 to Gly-26.	L0748: 2, H0318: 1 and L0749: 1.	
HBJFIH09	487020	9487	66 - 272	19239	Asn-18 to His-23, Glu-38 to Glu-45.	H0318: 1	
	490958	9761	284 - 141	19513			
HBJFIH70	757374	9488	283 - 471	19240	Glu-1 to Arg-8.	L0754: 2 and H0318: 1.	
HBJFIH68	752251	9489	307 - 465	19241		L0748: 2 and H0318: 1.	
HBJFIH45	722107	9490	49 - 153	19242		H0318: 1 and L0740: 1.	
HBJFIH04	615515	9491	329 - 493	19243		L0748: 2 and H0318: 1.	
HBJFIH06	935967	9492	99 - 200	19244		H0318: 1 and L0748: 1.	
HBJFIH72	766187	9493	2 - 184	19245		L0439: 2 and H0318: 1.	
HBJFIH51	485130	9494	3 - 206	19246		H0318: 1	
HBJFIH05	935058	9495	273 - 473	19247	His-4 to Leu-15.	S0005: 1 and H0318: 1.	
HBJFIH07	573809	9496	160 - 438	19248	Arg-2 to Leu-9, Arg-38 to Cys-54.	H0318: 1	
HBJFIH73	573834	9497	1 - 81	19249	Gly-1 to His-18.	H0318: 1	
HBJFIH54	625943	9498	308 - 445	19250	Ala-22 to Trp-27.	H0318: 1	

HBIEA38	577103	9499	12 - 257	19251	Lys-1 to Glu-10.	L0749: 4 and H0318: 1.
HBIEA37	839964	9500	1 - 108	19252	Lys-10 to Pro-20.	H0318: 1
HBIEA13	419107	9501	56 - 268	19253		H0318: 1
HBIDZ49	847928	9502	142 - 303	19254		L0758: 2, H0318: 1 and L0752: 1.
HBIDR24	677407	9503	94 - 219	19255		H0318: 1 and L0748: 1.
HBIDQ86	784654	9504	3 - 116	19256		H0318: 1 and L0756: 1.
HBIDM70	757435	9505	313 - 399	19257	Leu-1 to Tyr-6.	H0318: 1 and L0754: 1.
HBIDL24	678272	9506	180 - 440	19258	Glu-48 to Gly-53.	L0748: 3 and H0318: 1.
HBICV85	900955	9507	538 - 735	19259		AR054: 10, AR050: 8, AR051: 2
HBICQ65	876430	9508	68 - 286	19260	Gly-35 to Ser-48.	H0318: 1, L0748: 1 and L0754: 1.
HBICJ82	779645	9509	315 - 479	19261		H0318: 1
HBICE07	954090	9510	1 - 132	19262	Glu-11 to Arg-19.	H0318: 1 and L0748: 1.
HBICB83	781411	9511	2 - 370	19263		H0318: 1 and L0748: 1.
HBIBR04	847952	9512	115 - 309	19264		H0318: 1 and L0748: 1.
HBIAJ95	796659	9513	175 - 276	19265		H0318: 1 and L0752: 1.
HBIAO55	732436	9514	40 - 171	19266	Thr-24 to Gly-37.	H0318: 1 and L0748: 1.
HBIAJ49	723164	9515	320 - 439	19267		H0318: 1 and L0748: 1.
HBIAI50	724619	9516	1 - 345	19268		H0318: 1 and L0748: 1.
HBIAH27	682941	9517	104 - 235	19269	Gly-32 to Tyr-41, Leu-64 to Asp-71.	L0731: 4, H0318: 1, L0783: 1, L0809: 1 and L0757: 1.
HBIAE32	699695	9518	214 - 408	19270	Pro-29 to Pro-35, Ile-3 to Leu-11, Lys-45 to Asp-50, Val-60 to Cys-65.	H0318: 1
HBIAJ77	772422	9519	80 - 325	19271	Asn-17 to Trp-23, Ala-33 to Ile-47.	H0318: 1, L0664: 1, L0438: 1 and L0749: 1.
HBIAJ49	722195	9520	175 - 471	19272	Tyr-39 to Val-44.	H0318: 1 and L0748: 1.
HBIAJ28	847966	9521	96 - 272	19273	Gly-38 to Lys-45.	L0766: 2, L0803: 2 and H0318: 1.
HBIAJ15	660552	9522	31 - 390	19274	Glu-71 to Phe-79, Glu-98 to Ala-103, Ala-111 to Met-117.	H0318: 1 and L0485: 1. H0318: 1 and L0759: 1.

HBD4E47	720008	9523	364 - 486	19275	Phe-25 to Pro-34.	L0363: 1, L0766: 1, L0804: 1 and S0308: 1.		
HBDAD64	864344	9524	240 - 548	19276	Gln-8 to Trp-30, Arg-77 to Val-95.	L0754: 2 and S0308: 1.		
HBDAD16	661560	9525	260 - 388	19277	Tyr-2 to His-10.	L0809: 1, L0748: 1 and S0308: 1.		
HBCCO10	963157	9526	184 - 372	19278	Thr-30 to Gln-37, Gln-42 to Arg-49.	L0749: 2 and H0370: 1.		
HBCCI05	930956	9527	72 - 365	19279	Pro-5 to His-14, Ser-58 to Ala-66.	H0370: 1 and L0748: 1.		
HBCCE11	965869	9528	336 - 527	19280	Arg-9 to Cys-21, Pro-35 to Trp-41.	H0370: 1, L0766: 1 and L0803: 1.		
HBCCD06	938319	9529	1 - 408	19281	Arg-1 to Gln-6, Ala-10 to Ala-15, Ala-35 to Ser-43.	H0370: 1 and L0759: 1.		
HBCCB51	975256	9530	48 - 227	19282	Lys-46 to Gly-60.	H0370: 1		
HBCBR08	958151	9531	3 - 428	19283	Pro-18 to Gln-23, Pro-72 to Gln-81, Pro-87 to Ser-93, Asp-112 to Leu-119, Pro-121 to Ala-135.	H0370: 1 and L0766: 1.	16q22.1	103850, 114835, 116800, 140100, 140100, 192090, 192090, 192090, 245900, 245900, 276600, 600223
HBCBN51	952057	9532	358 - 738	19284	Arg-7 to Ser-19, Leu-97 to Ala-106.	AR089: 28, AR061: 8 L0143: 2, H0370: 1 and L0595: 1.		
HBCBN06	934110	9533	25 - 231	19285		H0370: 1 and L0748: 1.		
HBCBG04	926761	9534	213 - 596	19286	Lys-13 to Leu-18.	L0749: 2 and H0370: 1.		
HBCBF12	969578	9535	1 - 225	19287		H0370: 1, L0659: 1 and L0758: 1.		
HBCBE57	848322	9536	426 - 677	19288	Gly-51 to Gly-56, Pro-62 to Gly-74.	H0370: 1, L0748: 1, L0749: 1 and L0591: 1.		
HBCBB22	848325	9537	566 - 868	19289		H0370: 1, L0744: 1, L0779: 1, L0777: 1 and L0601: 1.		
HBCAW52	573919	9538	65 - 247	19290	Pro-7 to Pro-19, Ser-26 to Gly-34.	H0370: 1		

HBCAT10	968195	9539	84 - 218	19291	Tyr-9 to Gly-15, Lys-34 to Gln-41.	H0370: 1 and L0759: 1.	
HBCAS32	699489	9540	106 - 264	19292	Leu-1 to Gln-6, Pro-13 to His-18, Arg-35 to Val-43, Gly-18 to Pro-24, Pro-26 to Gln-41.	H0370: 1 and L0744: 1.	
HBCAQ85	783431	9541	2 - 307	19293	Arg-8 to Asp-17.	L0439: 2 and H0370: 1.	
HBCAQ42	864356	9542	182 - 430	19294	Arg-8 to Asp-17.	H0370: 1 and L0365: 1.	
HASCG58	738423	9543	21 - 236	19295		L0748: 3, L0731: 2, H0274: 1 and L0754: 1.	
HASAW90	789112	9544	494 - 655	19296	Asn-27 to Ser-38.	L0740: 2, L0758: 2, H0004: 1 and L0439: 1.	
HASAR74	879377	9545	745 - 1068	19297		H0004: 1	
	883501	9762	251 - 643	19514			
HASAC10	968746	9546	3 - 287	19298	Arg-30 to Tyr-38, Met-71 to Arg-76, His-78 to Val-86, Glu-89 to Gly-95.	H0004: 1, L0639: 1, L0748: 1 and L0779: 1.	

- [044] The first column in Table 1A provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1A. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.
- [045] The second column in Table 1A provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the immune/hematopoietic associated contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.
- [046] The fifth column in Table 1A provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.
- [047] Column 6 in Table 1A lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In preferred embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1A. It will be appreciated that depending on the

analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[048] Column 7 in Table 1A provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1A, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ^{33}P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be predominantly

expressed in immune/hematopoietic tissues, including normal and diseased immune/hematopoietic tissues (See Table 1A, column 7 and Table 4).

[049] Column 8 in Table 1A provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[050] A modified version of the computer program BLASTN (Altschul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1A under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[051] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ (*supra*). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1A, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 1B

Clone ID NO:Z	SEQ ID NO:X	CONTIG ID:	BAC ID: A	SEQ ID NO:B	EXON From-To
HAMHB21	11	961376	AL035530	19515	1-137 465-2035 2761-2939 3499-3663 3841-4296 5031-5501 5707-5905 5946-6330 6790-6899 6957-7401 7628-7818 7889-10548
HAMHB21	11	961376	AL035530	19516	1-577
HASAX16	12	573692	AL358796	19517	1-1065
HASAX16	12	573692	AL356513	19518	1-1281
HASAX16	12	573692	AL358796	19519	1-964
HASAX16	12	573692	AL356513	19520	1-540
HASAX16	12	573692	AL356513	19521	1-967
HASAY74	13	526312	AC006479	19522	1-1081
HASAY74	13	526312	AC006479	19523	1-1052
HASAY74	13	526312	AC006479	19524	1-117
HASAY89	14	958768	AC012580	19525	1-874
HASAY89	14	958768	AL133502	19526	1-874
HASAY89	14	958768	AC012580	19527	1-87
HASAY89	14	958768	AC012580	19528	1-1034 1426-2177
HASAY89	14	958768	AL133502	19529	1-1034 1426-2177
HASAY94	15	521835	AC022702	19530	1-220 2365-2620 2992-3310 3432-3987 4545-5235 5266-5325 5814-6468 6801-6965 7327-7763 7979-8172
HASAY94	15	521835	AC025796	19531	1-272
HASAY94	15	521835	AC024998	19532	1-272
HASAY94	15	521835	AL365438	19533	1-272
HASAY94	15	521835	AL390122	19534	1-272
HASAY94	15	521835	AL133216	19535	1-306 1488-1890 2450-2722 3082-3400 3526-4081 4304-5314
HASAY94	15	521835	AF198096	19536	1-308 1490-1896 2457-2728 2816-3407 3532-4087

					4313-5008 5584-6209
HASAY94	15	521835	AC024998	19537	1-592
HASAY94	15	521835	AC022702	19538	1-316
HASAY94	15	521835	AC025796	19539	1-592
HASAY94	15	521835	AL365438	19540	1-591
HASAY94	15	521835	AL390122	19541	1-592
HASAY94	15	521835	AL133216	19542	1-750
HASAY94	15	521835	AL133216	19543	1-138 734-1117 1716-2301 2496-3003 3142-3588 5476-6185 6679-7322 7428-7952 8163-8628 9071-9154 9380-9538 10422-10640 10673-10765 10780-10828 11018-11735 12735-13548 13651-14193 14663-14949 15056-15454 17688-18060 19315-19659
HASAY94	15	521835	AF198096	19544	1-2408
HASAY94	15	521835	AF198096	19545	1-373
HBCAL39	17	964871	AL023808	19546	1-606
HBCAL39	17	964871	AL354975	19547	1-609
HBCAL39	17	964871	AL355583	19548	1-609
HBCAL39	17	964871	AL117337	19549	1-607
HBCAL39	17	964871	AL161931	19550	1-607
HBCAL39	17	964871	AL022345	19551	1-83 1585-1635 1808-2378 5485-5902 6116-6277 8376-8779 8822-8972 9168-9821 11260-11538 13579-13698 17448-17520 17571-17848 18839-19282 19624-20151 20479-21084 21175-21448 32819-33061 34887-35180 35454-36250 37565-38021 38576-38855

					40356-40851 40884-41362 43851-44422 45111-46319 46743-49458 50723-51179 52126-52399 53142-53345 55328-55452 55462-56374 58253-58708
HBCAL39	17	964871	AF205588	19552	1-607
HBCAL39	17	964871	AL354975	19553	1-274
HBCAL39	17	964871	AL023808	19554	1-528
HBCAL39	17	964871	AL354975	19555	1-528
HBCAL39	17	964871	AL355583	19556	1-274
HBCAL39	17	964871	AL355583	19557	1-528
HBCAL39	17	964871	AL117337	19558	1-273
HBCAL39	17	964871	AL117337	19559	1-526
HBCAL39	17	964871	AL161931	19560	1-273
HBCAL39	17	964871	AL161931	19561	1-526
HBCAL39	17	964871	AL022345	19562	1-465
HBCAL39	17	964871	AF205588	19563	1-526
HBCAL39	17	964871	AF205588	19564	1-273
HBCAR79	19	573989	AC021215	19565	1-432
HBCAT17	21	503573	AC011448	19566	1-874
HBCAT17	21	503573	AC011448	19567	1-749
HBCAT63	22	573993	AL133243	19568	1-236
HBCAT63	22	573993	AL133243	19569	1-364
HBCAT63	22	573993	AL133243	19570	1-141
HBCBX12	24	861018	AC068475	19571	1-70 163-330 651-994 1105-1272 1372-1586 2253-2908 2995-3524 3711-4406 4418-4480 4581-5218 5621-5829 6007-6286
HBCBX12	24	861018	AC005954	19572	1-91 893-1009 1323-1695 1856-2422 3548-3650 3665-4010 4965-5170 5288-5397 6874-7000 7283-7430 7520-7600 7693-7860 8181-8524 8634-8807 8902-9116

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HBCBX12	24	861018	AC005954	19573	1-131
HBDAC79	26	935414	AP001785	19574	1-99 368-765 963-1141 1966-2078 2175-2597 3058-3200 3479-3686 4113-4631 4727-5095 5187-5344 5973-6073 6176-7972 8126-9308
HBDAC79	26	935414	AP001785	19575	1-224
HBDAC79	26	935414	AP001785	19576	1-428
HBDAD04	27	614849	AC055822	19577	1-970
HBDAD04	27	614849	AC055822	19578	1-424
HBDAD04	27	614849	AC055822	19579	1-281
HBDADF51	28	725481	AC041031	19580	1-709
HBDADF51	28	725481	AC012314	19581	1-859 928-1588 2180-2459 2554-2831 2984-3375 3783-4571 4867-5280 5713-7103
HBDADF51	28	725481	AC010492	19582	1-859 928-1588 2180-2459 2553-2830 2983-3374 3782-4570 4866-5279

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HBDAF51	28	725481	AC012314	19583	1-428
HBDAF51	28	725481	AC010492	19584	1-428
HBDAF61	29	864338	AC003963	19585	1-1249
HBDAF61	29	864338	AC003963	19586	1-582
HBDAF61	29	864338	AC003963	19587	1-106
HBJAB59	30	557972	AC073349	19588	1-596
HBJAB59	30	557972	AC073349	19589	1-107
HBJAB59	30	557972	AC073349	19590	1-608
HBJAC23	31	529753	AC008013	19591	1-37 103-661 1556-1903 1956-2579 2645-3136 3489-3537 4511-4666 5208-5598 5932-6495 6523-7338 8399-8495 9972-10388 10578-11240 11254-11411 11711-11799 12318-12567 13065-13804 13950-14573 15144-15404 16572-16810 17843-17999 18506-18812 18839-19318 20897-21290 21743-22162 22280-23030
HBJAC23	31	529753	AC006432	19592	1-151 694-1084 1418-1981 2009-2823 3503-3599 5071-5487 5677-6339 6355-6510 6809-6897 7416-7665 8157-8919 9065-9688 10259-10519 11692-11930 12638-12770 12941-13097 13610-13902 13943-14422 15994-16388 16841-17233 17379-18129
HBJAC23	31	529753	AC008013	19593	1-294

HBJAC23	31	529753	AC008013	19594	1-289 692-1099 1395-1823 2203-2837 3577-4809 4987-5449 5855-6157 6332-6552 6672-6725 6773-6994 7254-7358 7391-7785 7880-8597 10291-10690 10700-11175 11393-11530 11644-11749
HBJAC23	31	529753	AC006432	19595	1-290
HBJAG72	32	722723	AC022533	19596	1-479
HBJAG72	32	722723	AC068898	19597	1-479
HBJAG72	32	722723	AC022533	19598	1-140
HBJAG72	32	722723	AC068898	19599	1-140
HBJA75	34	953840	AL133163	19600	1-98 211-417 784-1004 1875-2071 2745-2913 3205-4214 4242-4552 4695-5574 6331-6850 7048-7631 7696-8408 8763-8873 8944-10131 10166-10740
HBJA75	34	953840	AL133163	19601	1-535
HBJA85	35	675904	AC002450	19602	1-117
HBJA85	35	675904	AC002450	19603	1-894
HBJA85	35	675904	AC002450	19604	1-501
HBJAV57	36	527998	AC004976	19605	1-140 348-434 2467-2856 3263-3461 4014-4463 4995-5067 6578-6638 7115-7236
HBJAV57	36	527998	AC004976	19606	1-273
HBJAY91	38	828026	AC067953	19607	1-341
HBJAY91	38	828026	AC067953	19608	1-180
HBJAY91	38	828026	AC067953	19609	1-364
HBIBM14	39	781398	AC022239	19610	1-407
HBIBM14	39	781398	AC022239	19611	1-463
HBIBM14	39	781398	AC022239	19612	1-663
HBJBU55	41	527112	AC024631	19613	1-580
HBJBU55	41	527112	AC024631	19614	1-103

HBJCD43	42	714390	AC013726	19615	1-76 903-1151 6010-6078 6161-6277 8977-9064 9732-9789 10007-10050 10340-10668 10685-10790 11749-11985 13579-13684 14185-14277 16029-16442 17116-17154
HBJCD43	42	714390	AC013726	19616	1-181 186-409
HBJCD43	42	714390	AC013726	19617	1-315
HBJCF68	44	823468	AC022827	19618	1-223
HBJCF68	44	823468	AC025429	19619	1-223
HBJCF68	44	823468	AC022827	19620	1-255
HBJCF68	44	823468	AC022827	19621	1-331
HBJCF68	44	823468	AC025429	19622	1-331
HBJCF68	44	823468	AC025429	19623	1-254
HBJDL73	48	531104	AC073041	19624	1-80 1609-2611 2813-3040 3929-4450 5011-5181 6243-6662 7347-7904
HBJDL73	48	531104	AC007401	19625	1-115 615-834 2847-2983 6954-6980 7541-7661 9579-9723 12147-12951 13592-13749 17487-18023 23251-23354 24659-24888 25992-26409 30147-30227 31757-32759 32961-33188 34077-34598 35159-35329 36391-36810 37495-39032 39741-42310 42460-42939 43671-44248 44277-44792 46043-46323 46392-47319
HBJDO70	50	752830	AC026134	19626	1-539
HBJDO70	50	752830	AC026134	19627	1-169

HBJDO70	50	752830	AC026134	19628	1-421
HBJDP32	51	573846	AC046176	19629	1-2934
HBJDP32	51	573846	AC046176	19630	1-357
HBJDP41	52	494836	AC015764	19631	1-90
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					2222-2584
					3024-3326
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					4361-4505
HBJDP41	52	494836	AC011667	19632	1-138
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					8970-10143
					10599-10746
					11435-11585
					11809-12440
					12785-14150
HBJDP41	52	494836	AC012052	19633	1-401
HBJDP41	52	494836	AC012052	19634	1-363
HBJDT47	55	573728	AC016555	19635	1-330
HBJDT47	55	573728	AC010243	19636	1-330
HBJDT47	55	573728	AC010897	19637	1-330
HBJDW36	57	573847	AC023933	19638	1-460
HBJDW36	57	573847	AC023933	19639	1-231
HBJDW36	57	573847	AC023933	19640	1-311
HBJDX18	58	795732	AC007546	19641	1-103
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					1856-2074
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					6287-6977
					7105-7443
					8618-8818
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					10264-12381
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					21764-21927
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					28198-28323
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HBJDX18	58	795732	AC040979	19642	1-691 819-1158 2333-2533 2789-3014 3110-3211 3641-6097 6257-7059 7071-7662
HBJDX18	58	795732	AC007546	19643	1-258
HBJDX18	58	795732	AC040979	19644	1-284
HBJDX18	58	795732	AC007546	19645	1-143 204-922
HBJEA22	60	674872	AC018393	19646	1-382
HBJEA22	60	674872	AC023051	19647	1-382
HBJEA22	60	674872	AC018393	19648	1-333
HBJEA22	60	674872	AC023051	19649	1-333
HBJEA25	61	589249	AC016153	19650	1-76 255-413 485-549 1027-1356 1650-1744 1873-1996 2718-2802 2850-3420 3710-4290 4976-5599 5718-6368 6700-6837 7237-7349
HBJEA44	62	973376	AC069385	19651	1-515
HBJEA65	63	934994	AL031589	19652	1-1069
HBJEA65	63	934994	AL031589	19653	1-318
HBJED66	65	787251	AC023043	19654	1-400
HBJED66	65	787251	AP001321	19655	1-400
HBJED66	65	787251	AP001155	19656	1-400
HBJED66	65	787251	AP001158	19657	1-400
HBJED66	65	787251	AP001321	19658	1-112
HBJED66	65	787251	AP001155	19659	1-451 491-1227 2776-3139 3477-3947 4551-4788
HBJED66	65	787251	AP001321	19660	1-451 491-1227 2776-3139 3477-3947 4550-4787
HBJED66	65	787251	AP001158	19661	1-450 490-1226 2775-3138 3476-3946 4549-4786
HBJED66	65	787251	AP001155	19662	1-112
HBJED66	65	787251	AP001158	19663	1-112
HBJEE29	66	888625	AL035652	19664	1-1667

HBJEE29	66	888625	AL035652	19665	1-530
HBJEE29	66	888625	AL035652	19666	1-242
HBJEI42	69	669495	AC073917	19667	1-645
HBJEI42	69	669495	AC010191	19668	1-645
HBJEI42	69	669495	AC073532	19669	1-645
HBJEI42	69	669495	AC073917	19670	1-167
HBJEI42	69	669495	AC073917	19671	1-383
HBJEI42	69	669495	AC010191	19672	1-167
HBJEI42	69	669495	AC073532	19673	1-383
HBJEI42	69	669495	AC010191	19674	1-382
HBJEI42	69	669495	AC073532	19675	1-111
HBJEJ21	70	671201	AC008449	19676	1-302
HBJEJ21	70	671201	AC008648	19677	1-302
HBJEJ21	70	671201	AC008449	19678	1-293
HBJEJ21	70	671201	AC008449	19679	1-331
HBJEJ21	70	671201	AC008648	19680	1-327
HBJEJ21	70	671201	AC008648	19681	1-291
HBJEJ29	71	693490	AC002126	19682	1-432
HBJEJ29	71	693490	AC002126	19683	1-415
HBJEJ83	72	847920	AC009970	19684	1-687
HBJEJ83	72	847920	AC040935	19685	1-687
HBJEJ83	72	847920	AC009970	19686	1-377
HBJEJ83	72	847920	AC009970	19687	1-380
HBJEJ83	72	847920	AC040935	19688	1-377
HBJEJ83	72	847920	AC040935	19689	1-380
HBJEO29	73	693491	AC011276	19690	1-646
HBJEO29	73	693491	AC009557	19691	1-644
HBJEO29	73	693491	AC011276	19692	1-578
HBJEO29	73	693491	AC009557	19693	1-324
HBJEO29	73	693491	AC009557	19694	1-441
HBJEP15	74	847843	AC005580	19695	1-394
HBJEP73	75	764573	AC073066	19696	1-314
HBJER19	76	953804	AC009118	19697	1-374
HBJES44	77	715846	AC034199	19698	1-723
HBJES44	77	715846	AC034199	19699	1-540
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					1164-1646
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					3619-4160
					4216-4290
					4715-5577
					7379-7476
					8023-8700
					8786-8852
					8970-9054
					9100-9487
					10513-10885
					12867-12891
					13114-13224
					14721-14752
					16197-16933
					17094-17635
					17691-17821
					18749-19392
					20883-21548
					22494-22739

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HBJES44	77	715846	AC034199	19700	1-3850
HBJET94	79	794343	AL133485	19701	1-272
HBJET94	79	794343	AL133485	19702	1-174
HBJET94	79	794343	AL133485	19703	1-422
HBJEW15	80	507534	AC010618	19704	1-416
					2674-2762
HBJEW15	80	507534	AC010618	19705	1-134
HBJEW15	80	507534	AC010618	19706	1-1447
HBJEZ09	81	573781	AC026110	19707	1-304
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HDQES62	1918	792766	AC020655	23814	1-1781
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HDQ GR80	1935	880654	AC018781	23846	1-523
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HDQ HF10	1937	963485	AL049840	23850	1-801
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HDQ HK04	1938	926988	AC022966	23853	1-352
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HDQ HO04	1940	926976	AC013279	23855	1-51 432-923 986-1307
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HDQ HO07	1941	852555	AC005390	23858	1-476
HDQ HP44	1942	811790	AC034259	23859	1-93 169-689 881-2081 2249-3269
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HDQ HZ22	1946	879416	AL158048	23864	1-730 1351-1559 1659-2178
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HDQ IJ11	1948	966021	AP002437	23871	1-540
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HDTAQ55	1955	728772	AC069304	23879	1-367
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HDTBF27	1957	683389	AC005021	23882	1-1276 2698-3169 3411-4696 4739-5868 6038-6892 7133-8106 9050-9660 10094-10596 11421-12539 12909-13168 13283-15173
HDTBF27	1957	683389	AC005021	23883	1-1198
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HDTBL45	1958	785534	AL159163	23885	1-62 3028-3159 3731-4202 5811-5871 6104-6243 6700-6969 7128-7415 7633-9533 10360-10492 11492-11681 12072-12484 13542-14028 14071-14553 18412-18511 18529-19185 20422-21507 22310-22692 22758-22889
HDTBL45	1958	785534	AL159163	23886	1-869
HDTBQ34	1963	703446	AL359539	23887	1-450
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HDTBQ47	1964	720298	AC025287	23889	1-777 1512-1768 2556-3544 3903-4196 4251-4362 5124-6393 6497-6616
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HDTBQ56	1965	799840	AL353585	23893	1-1637
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HDTBQ80	1966	775420	AF131215	23898	1-1196
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HDTBR15	1967	660236	AC002528	23901	1-57 397-949 2172-2221 2513-2567 2666-3049 3100-3151 3650-3751 3894-3938 4053-4152 4572-4626 4750-4858 5219-5273 5385-5485 5546-5991 6398-6451 6914-7013 7413-7467 8019-8074 8221-8278 8546-8606 9555-9600 10732-10869 11187-11723 11794-12162 12827-12883 13828-13882

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HDTBX47	1972	719530	AC004056	23902	1-439
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HDTCC60	1974	740350	AC068884	23904	1-233 1616-1733 2978-3214 5541-5902 6274-6412 7877-8000 8309-8439 8822-8970 9053-9454
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HDTCC60	1974	740350	AC068884	23906	1-411
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HDTDC23	1976	675331	AC023255	23910	1-531
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HDTDD49	1978	799872	AC018754	23913	1-2142
HDTDG42	1979	713588	AL359257	23914	1-468
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HDTDG42	1979	713588	AC001226	23917	1-86
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HDTDP37	1982	571417	AC069475	23919	1-563
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HDTEJ30	1985	915445	AC008277	23925	1-211 908-1056 1544-2187 2750-2851 3477-6885 6961-7284 7519-8101 9152-10553
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HDTFD13	1989	835596	AC027296	23928	1-95 1633-2044
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HDTFP51	1992	924898	AL365325	23946	1-550 4210-4334 5155-6485 6716-7336 7560-7700 7748-8957
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HDTGI15	1995	953336	AP001940	23950	1-1096
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HDTGP93	2000	724545	AC025308	23953	1-525
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HDTHO45	2008	799861	AC005478	23971	1-454
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HDTHQ55	2010	799859	AC006583	23976	1-1110 3129-3175 4358-5280 8007-8131 10196-10467 10717-10950 11380-11499 11755-12606 12957-14294
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HDTHW16	2011	799839	AC025306	23978	1-623
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HDTIC48	2014	828038	AL365275	23982	1-420
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HDTIC74	2015	838780	AC023030	23986	1-154
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HLMMX57	2744	734985	AC015969	25697	1-390
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HLMMX72	2745	760651	AC020578	25699	1-1086
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HLMMX72	2745	760651	AC020578	25702	1-131
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HLMY01	2748	916636	AC024029	25708	1-582
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HLMNA14	2752	918207	AL139287	25712	1-196 251-1798
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HLMNA84	2753	577572	AL139807	25717	1-738
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HLMNA88	2754	856809	AC009950	25720	1-230 258-522
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HLMNA91	2755	765862	AL109743	25723	1-165 399-476 486-664 727-1914 2622-3581
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HLMNB08	2756	959559	AC006171	25726	1-289 1253-1460 1830-2134 3755-4011 5130-5672 5987-6090 8007-8430 8716-8831 8898-9510 11067-11453
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HLMNE84	2758	760695	AC008521	25733	1-347
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HLMNH23	2761	787043	AP001812	25737	1-61 203-341 1567-1675 2355-2465 3056-3864 4697-4916 5297-5342 6367-6480 6485-6588 6755-7133 8126-8677 9541-9778 10534-11646
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HLMNH23	2761	787043	AP000759	25739	1-630
HLMNH25	2762	575921	AC026065	25740	1-100 772-894 1216-1581 1841-2015 2108-2519 3025-3350 3659-4132 6075-6743
HLMNI37	2763	920361	AC009102	25741	1-382
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HLMNI69	2764	531356	AC068590	25744	1-358
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HLMNL01	2765	835623	AC004798	25746	1-269
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